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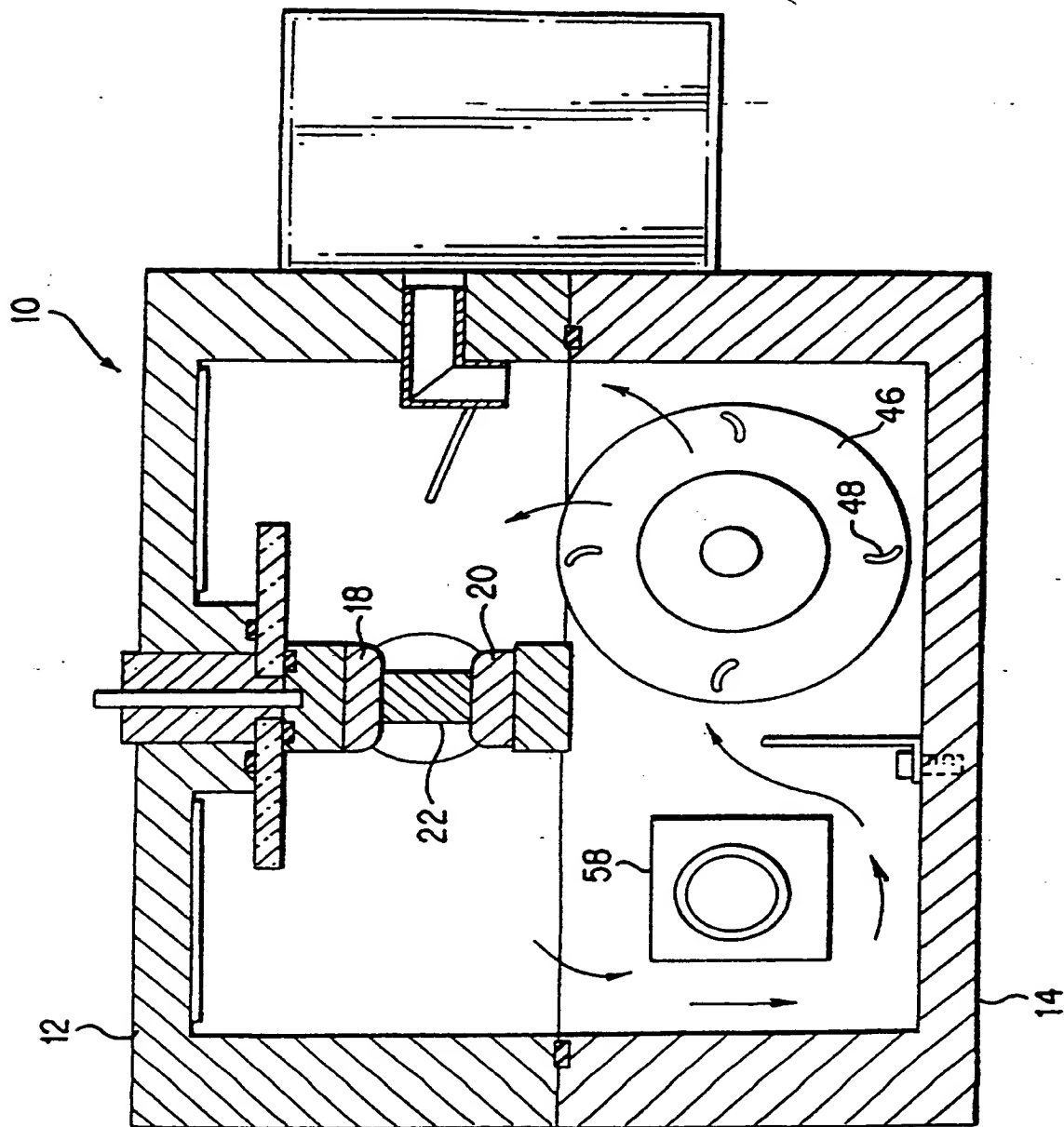


FIG. 1 PRIOR ART

FIG. 2 PRIOR ART

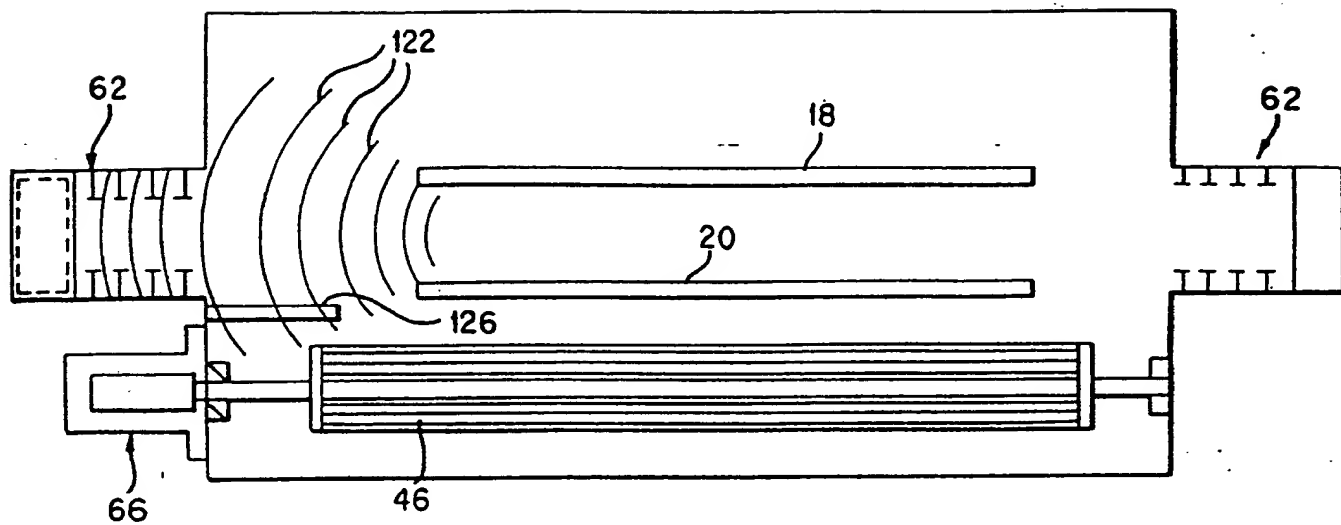


FIG. 2 PRIOR ART

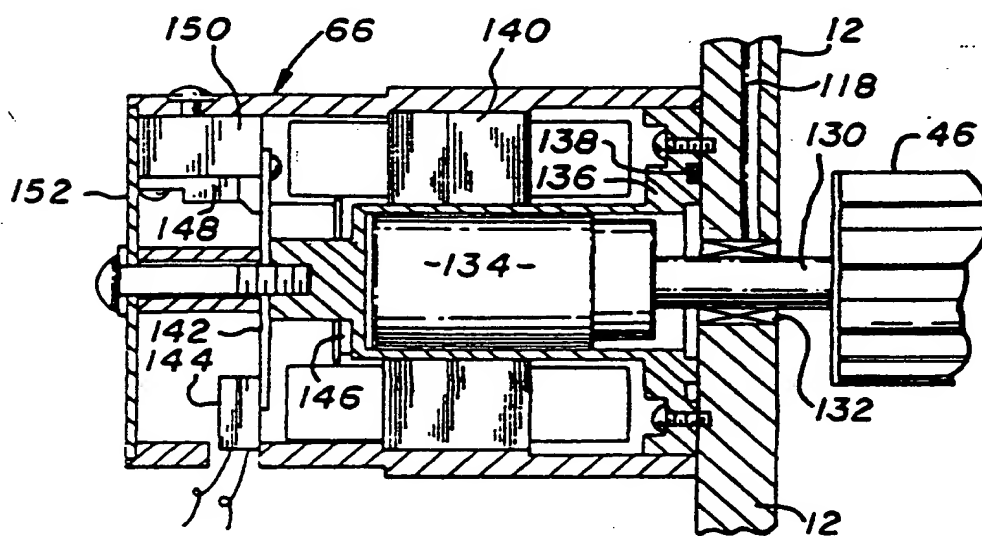
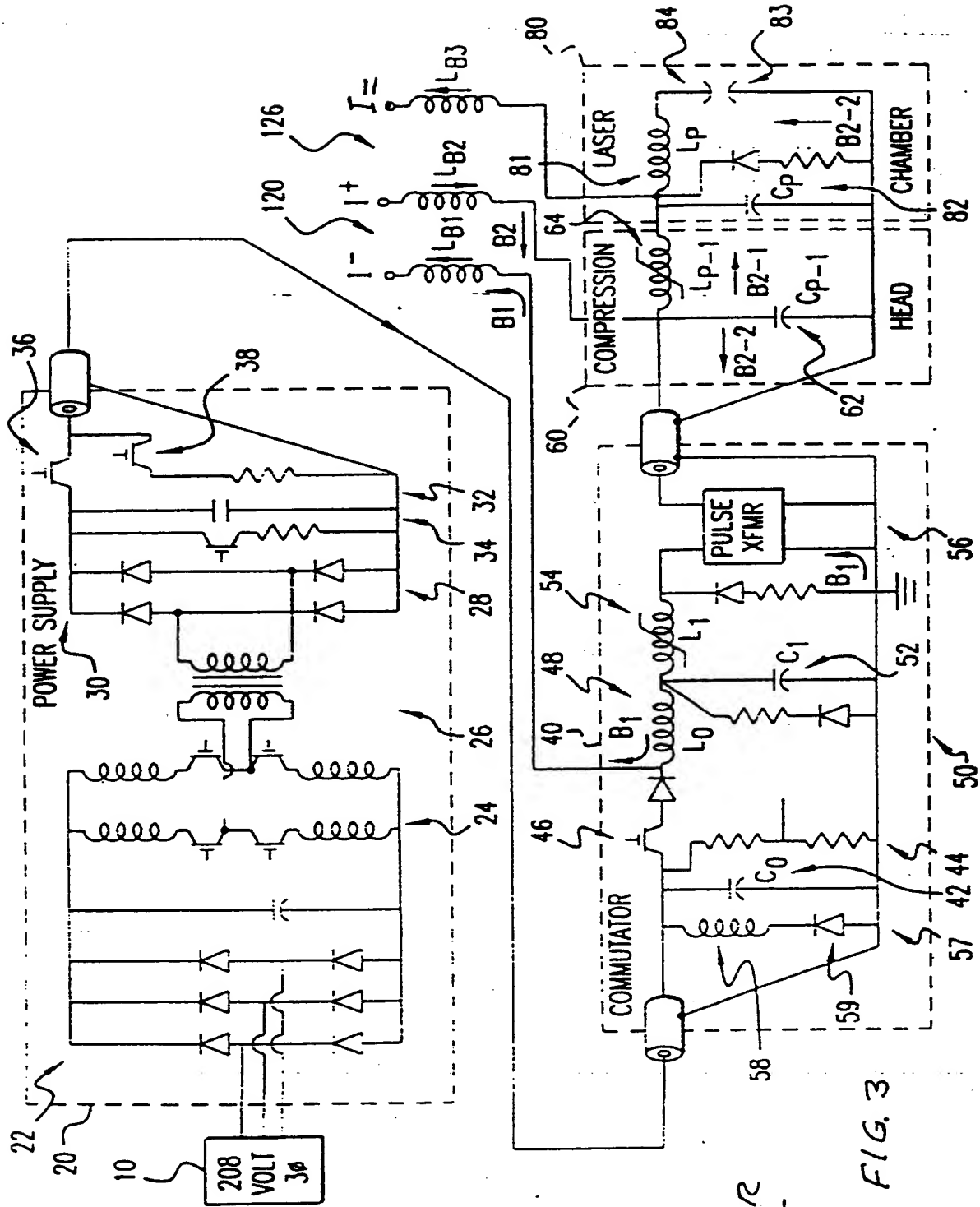


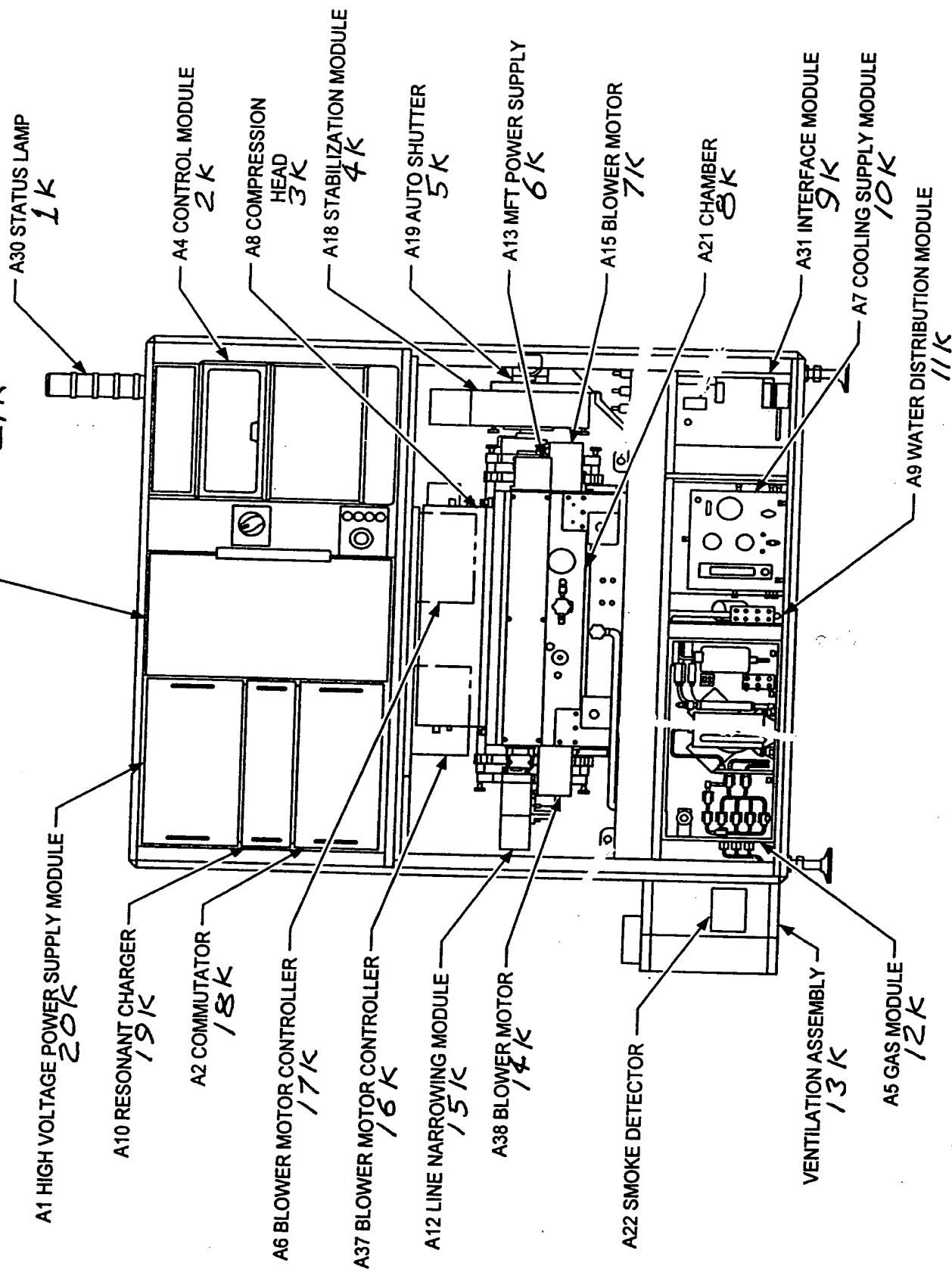
FIG. 2 A PRIOR ART



PRIOR ART
FIG. 3

FIG. 4A

FIG. 4A



FRONT VIEW

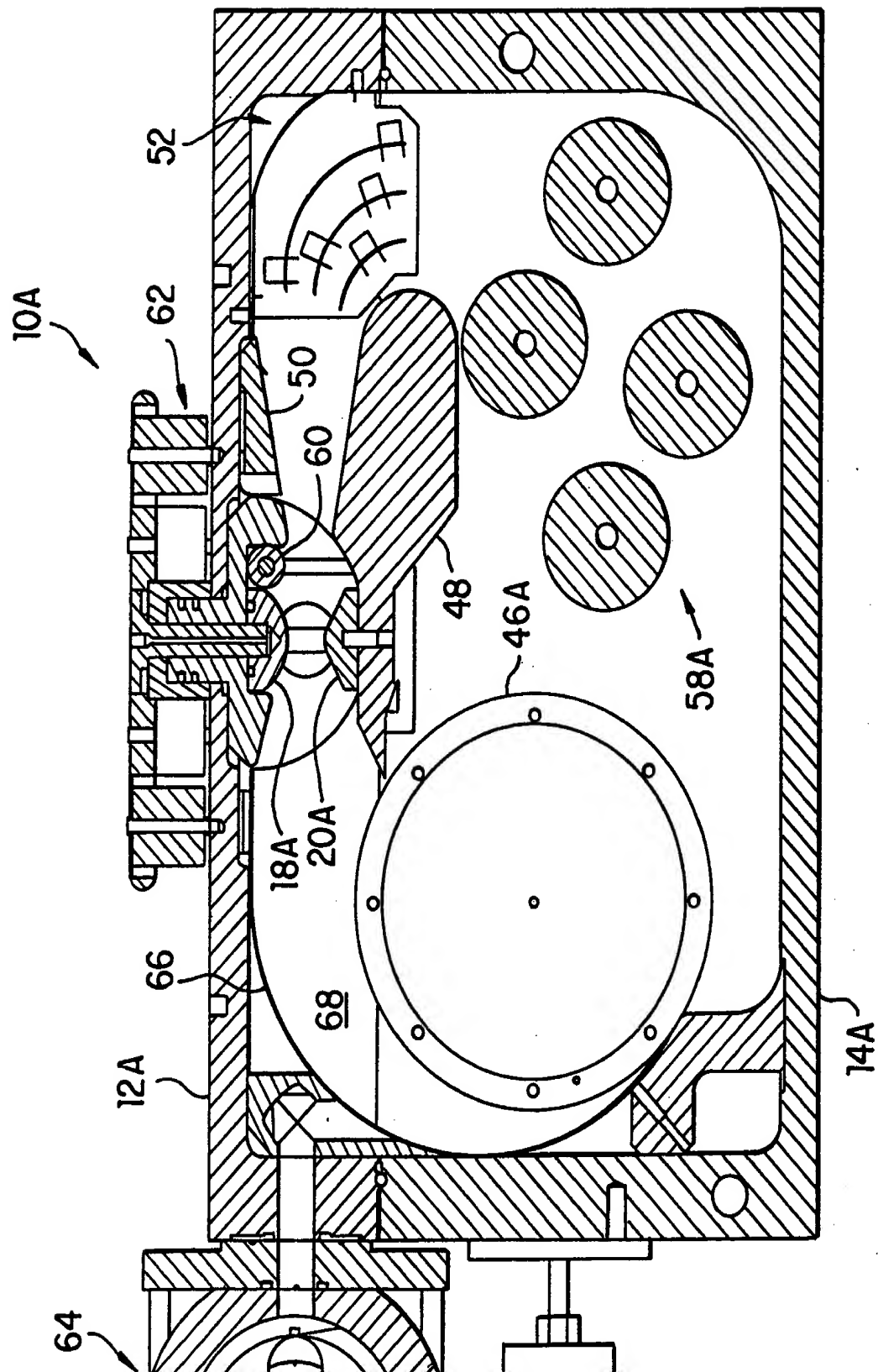


FIG. 4

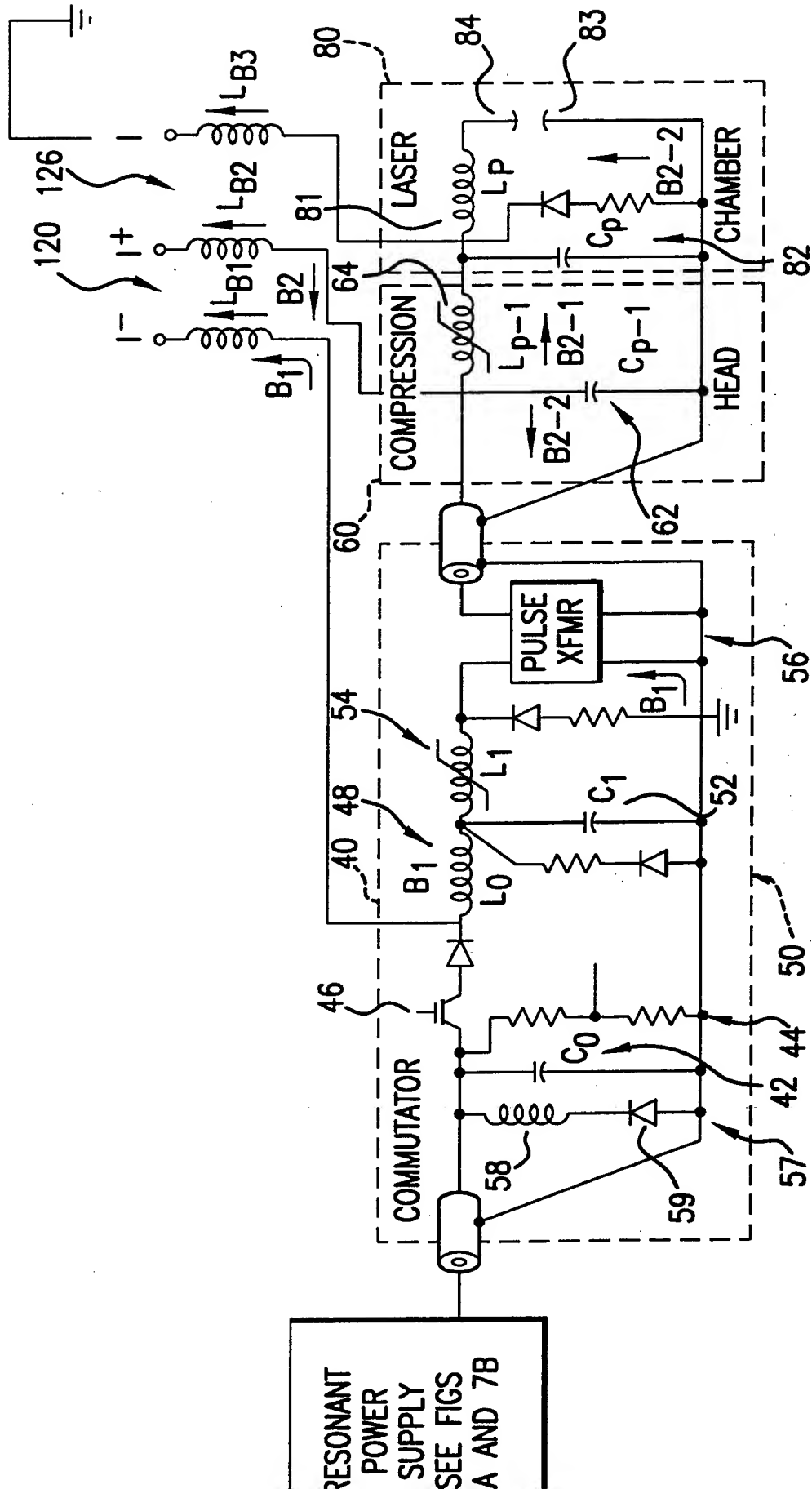


FIG. 5

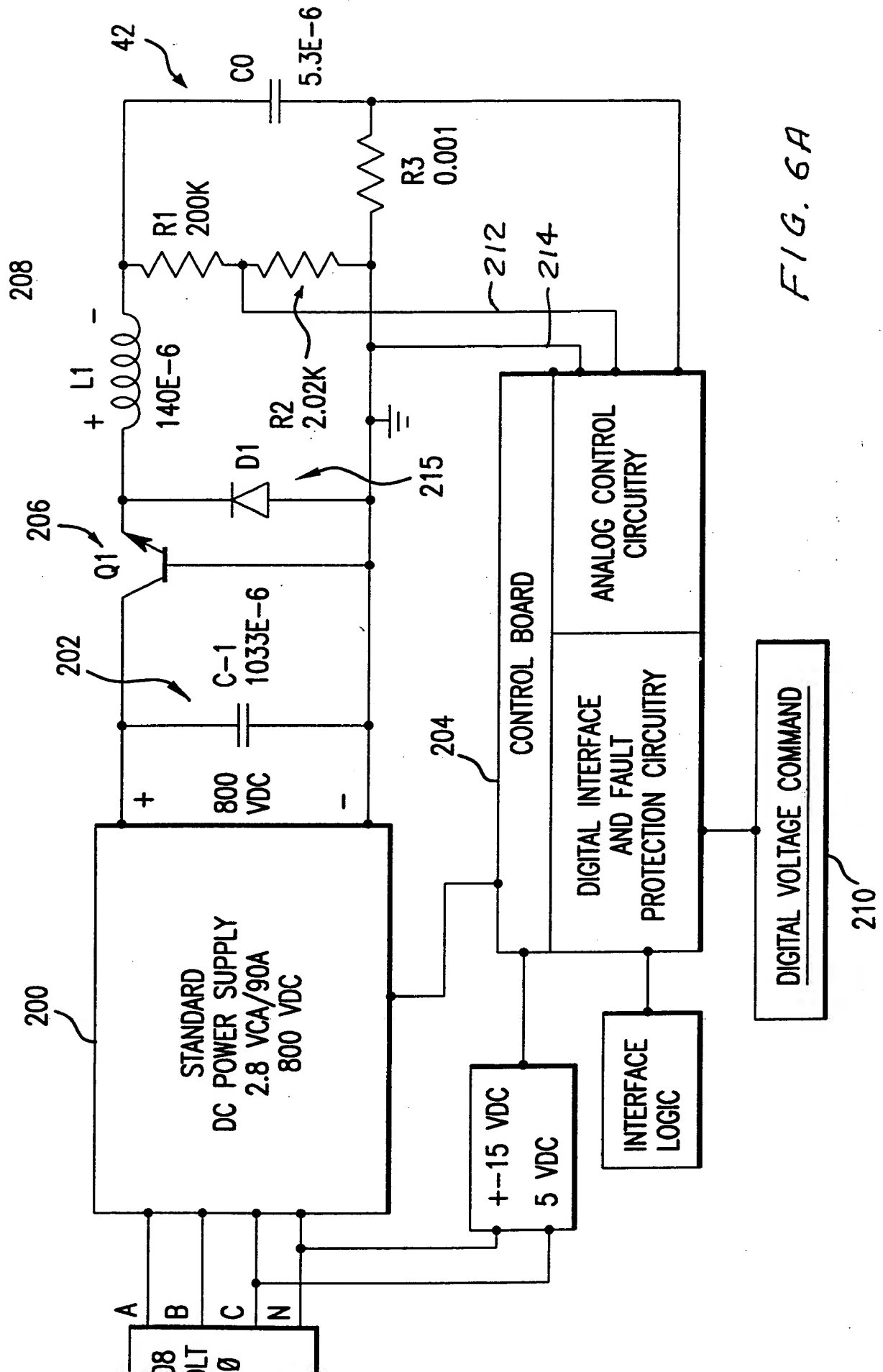
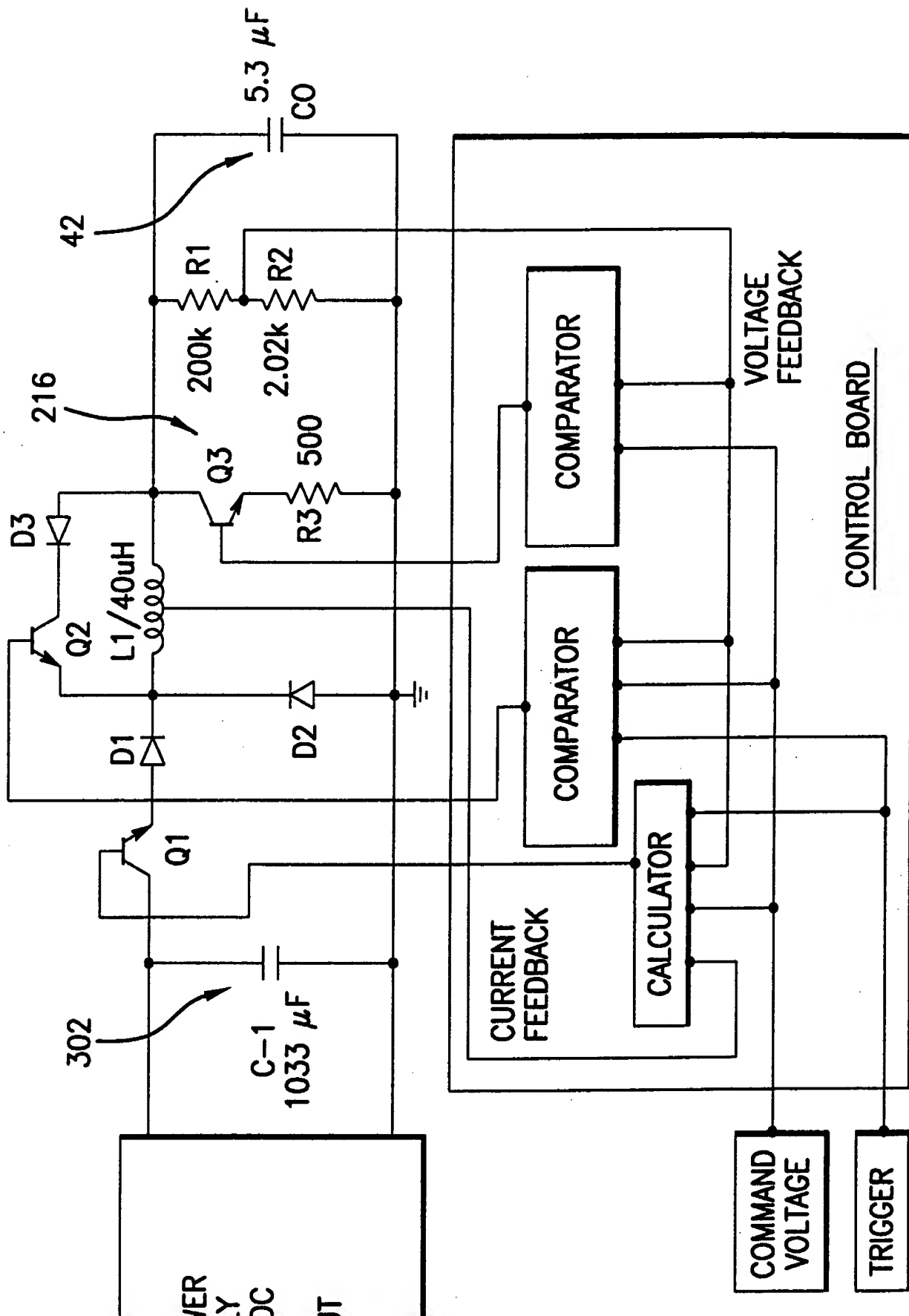


FIG. 6A



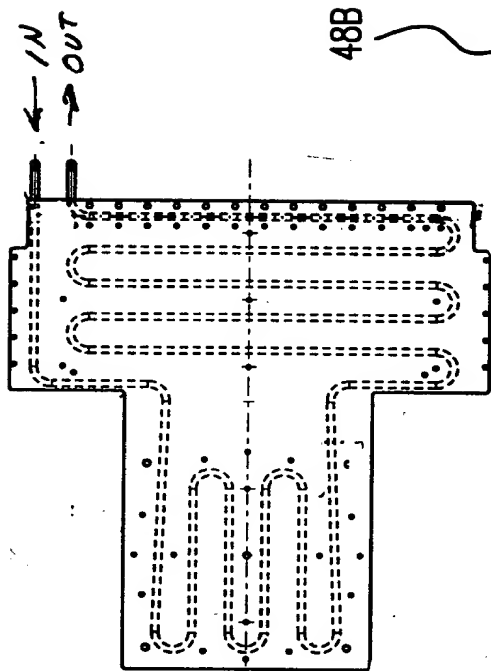


FIG. 7A

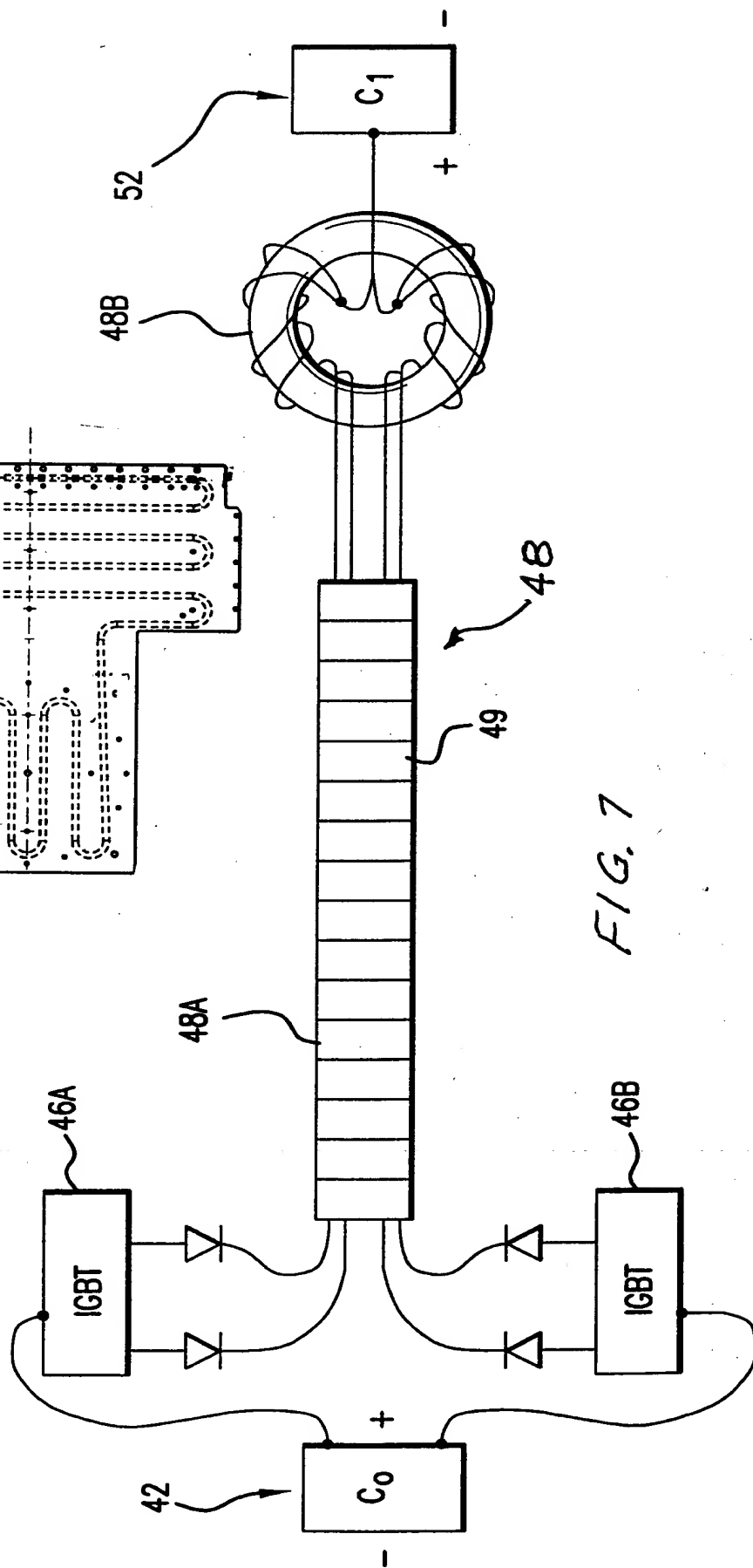


FIG. 7

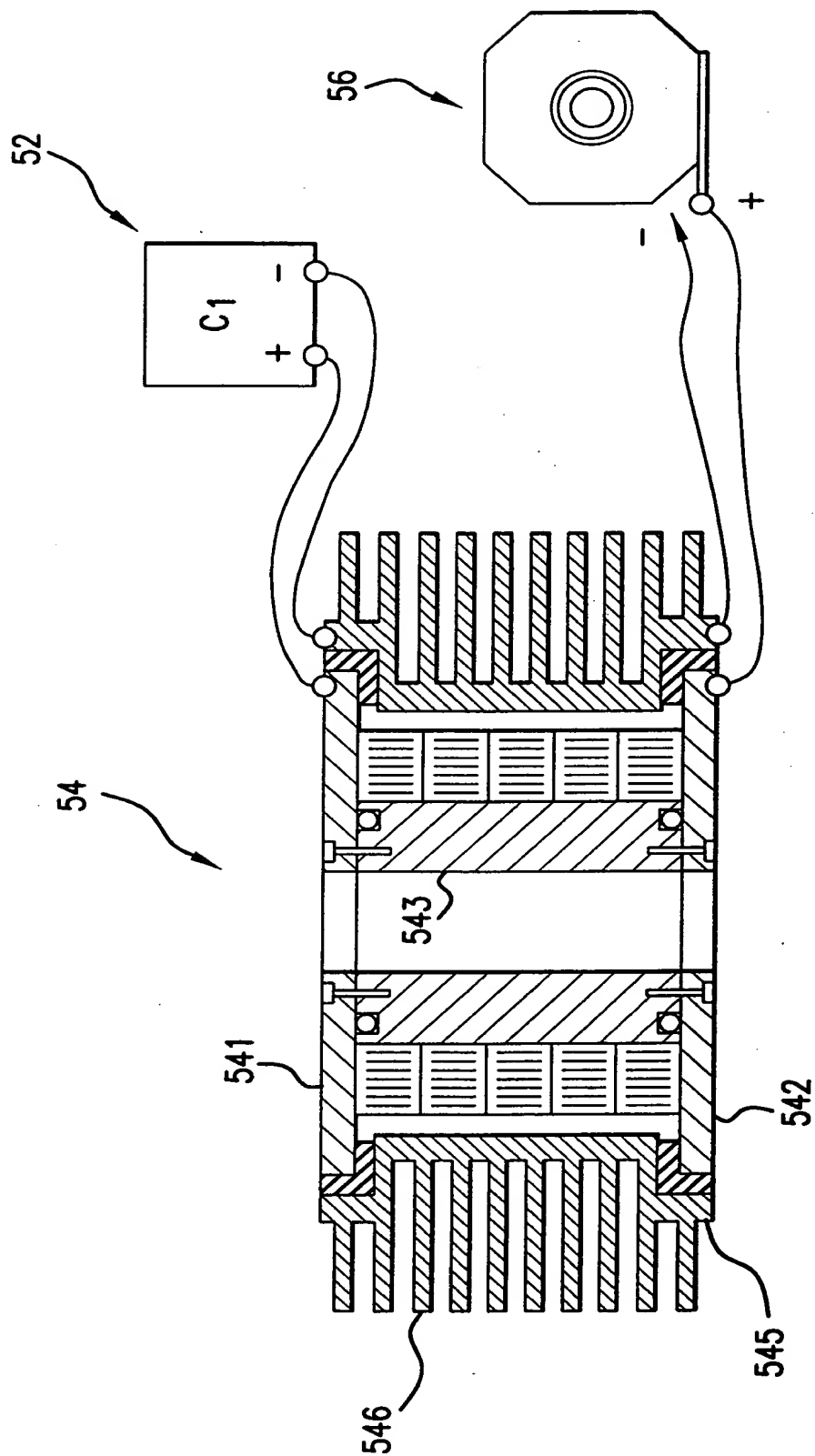


FIG. 8

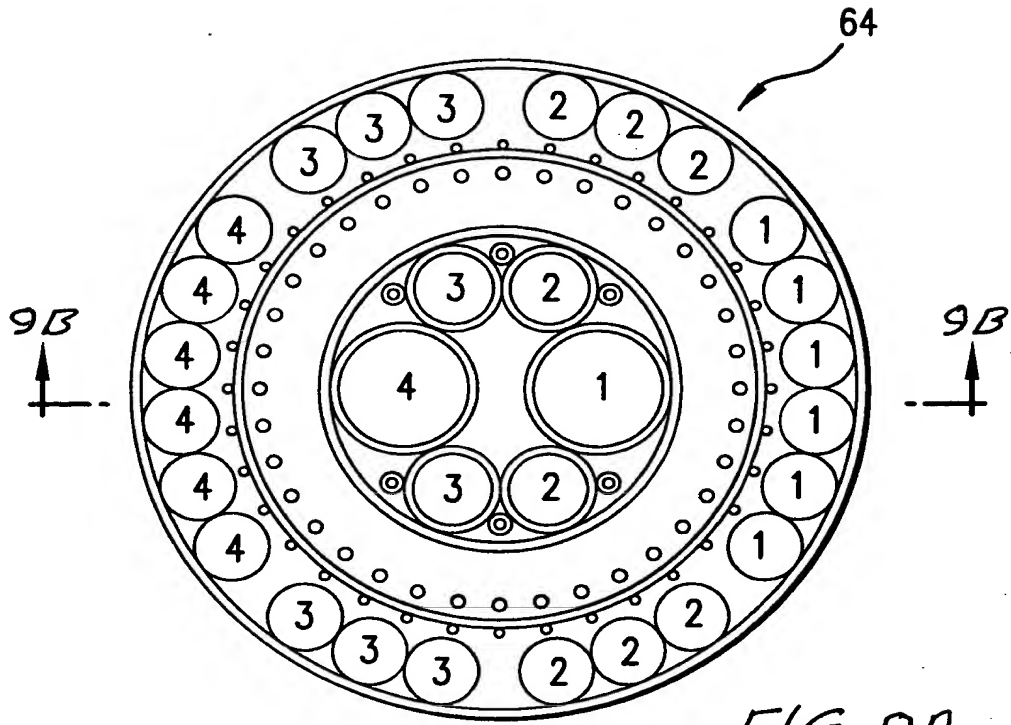


FIG. 9A

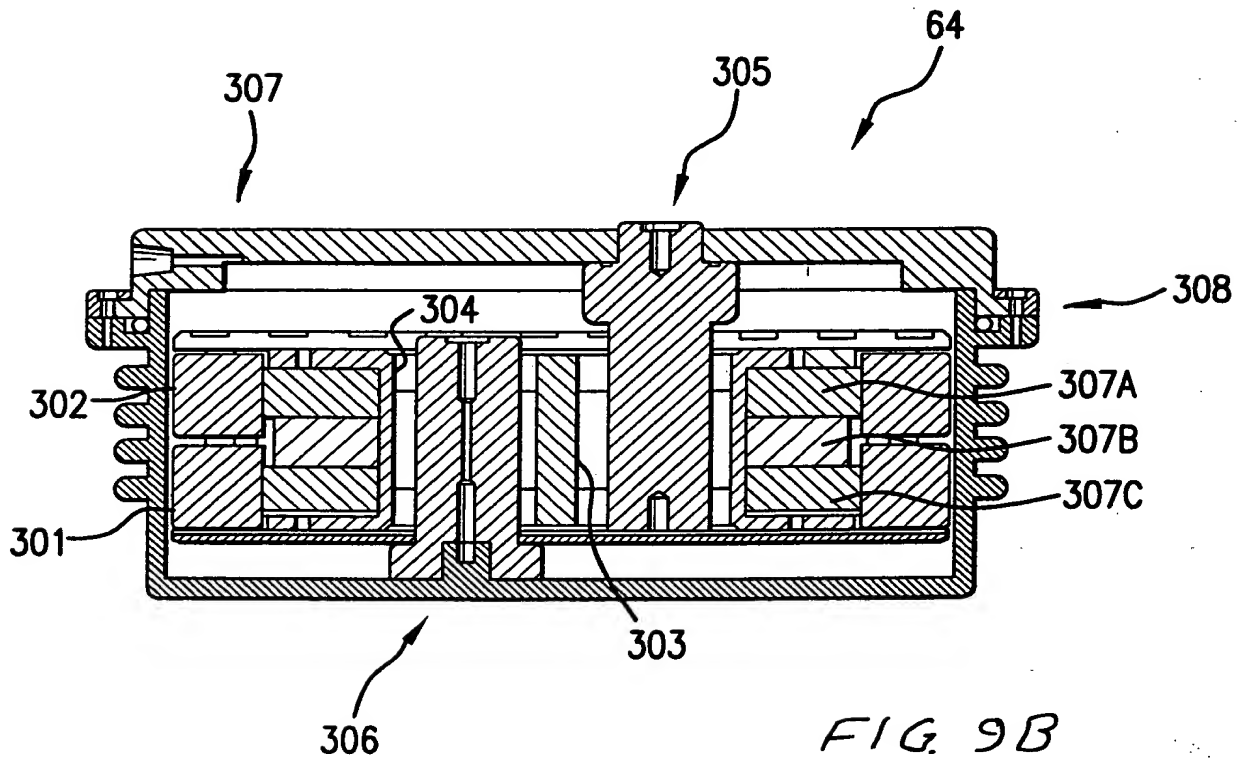
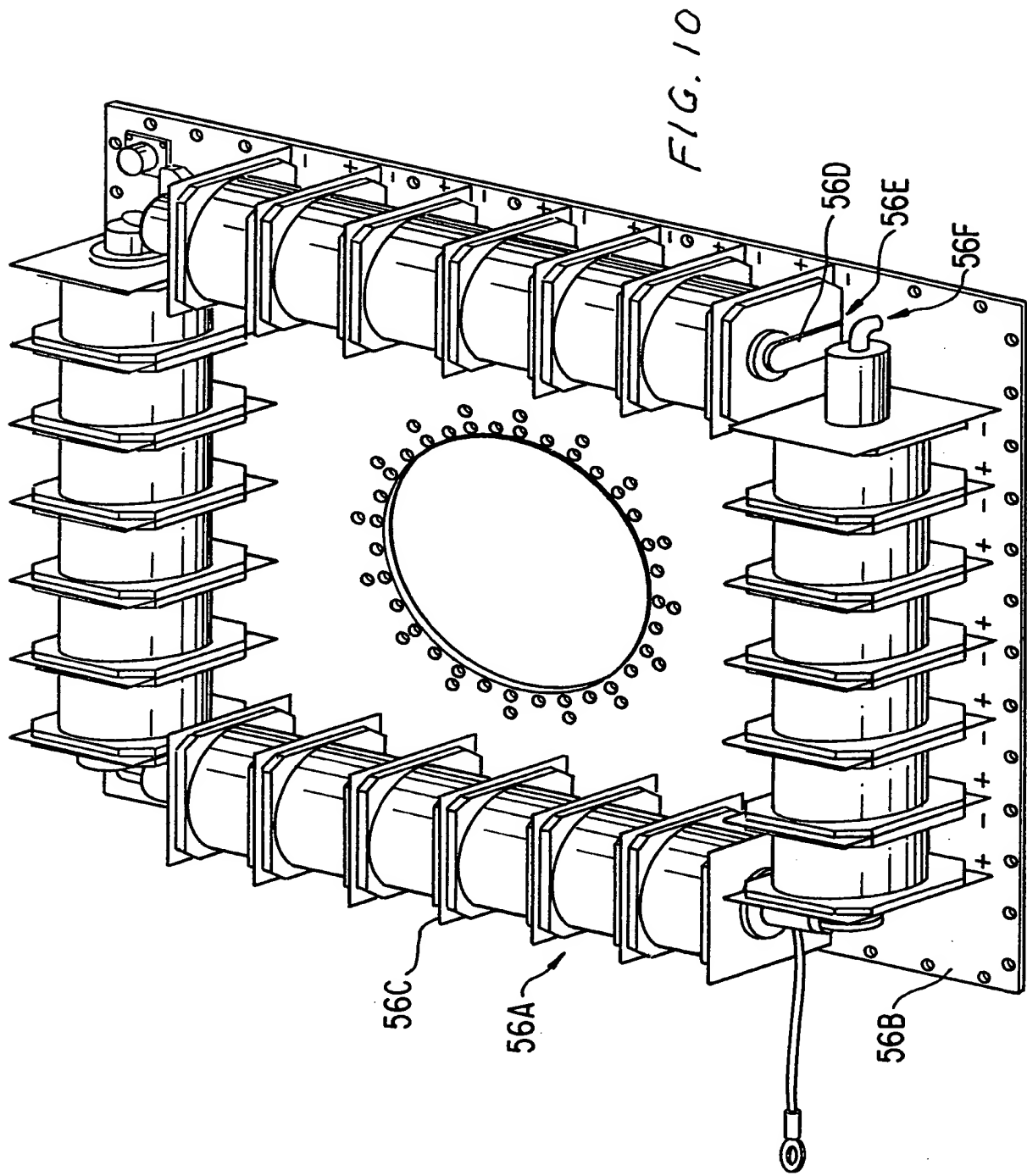


FIG. 9B



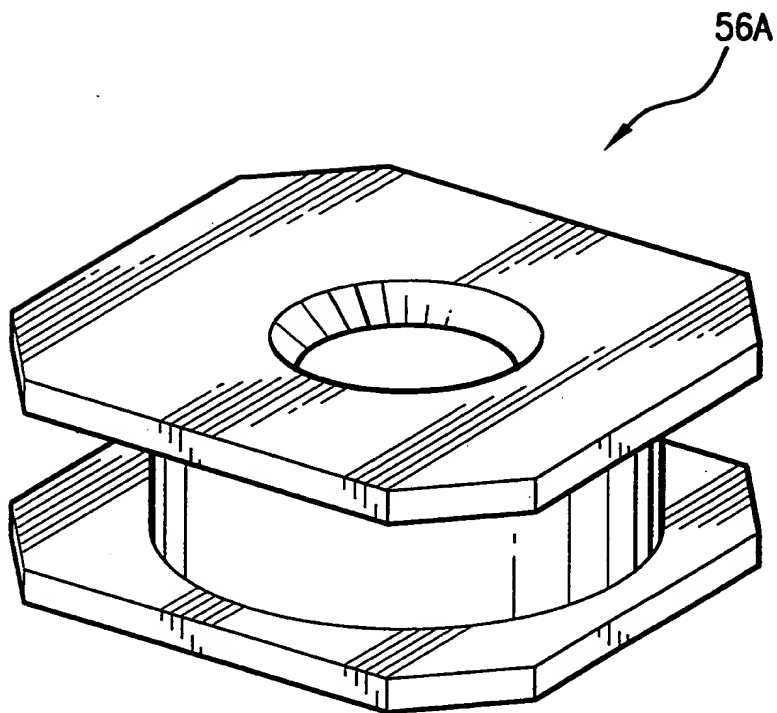


FIG. 10A

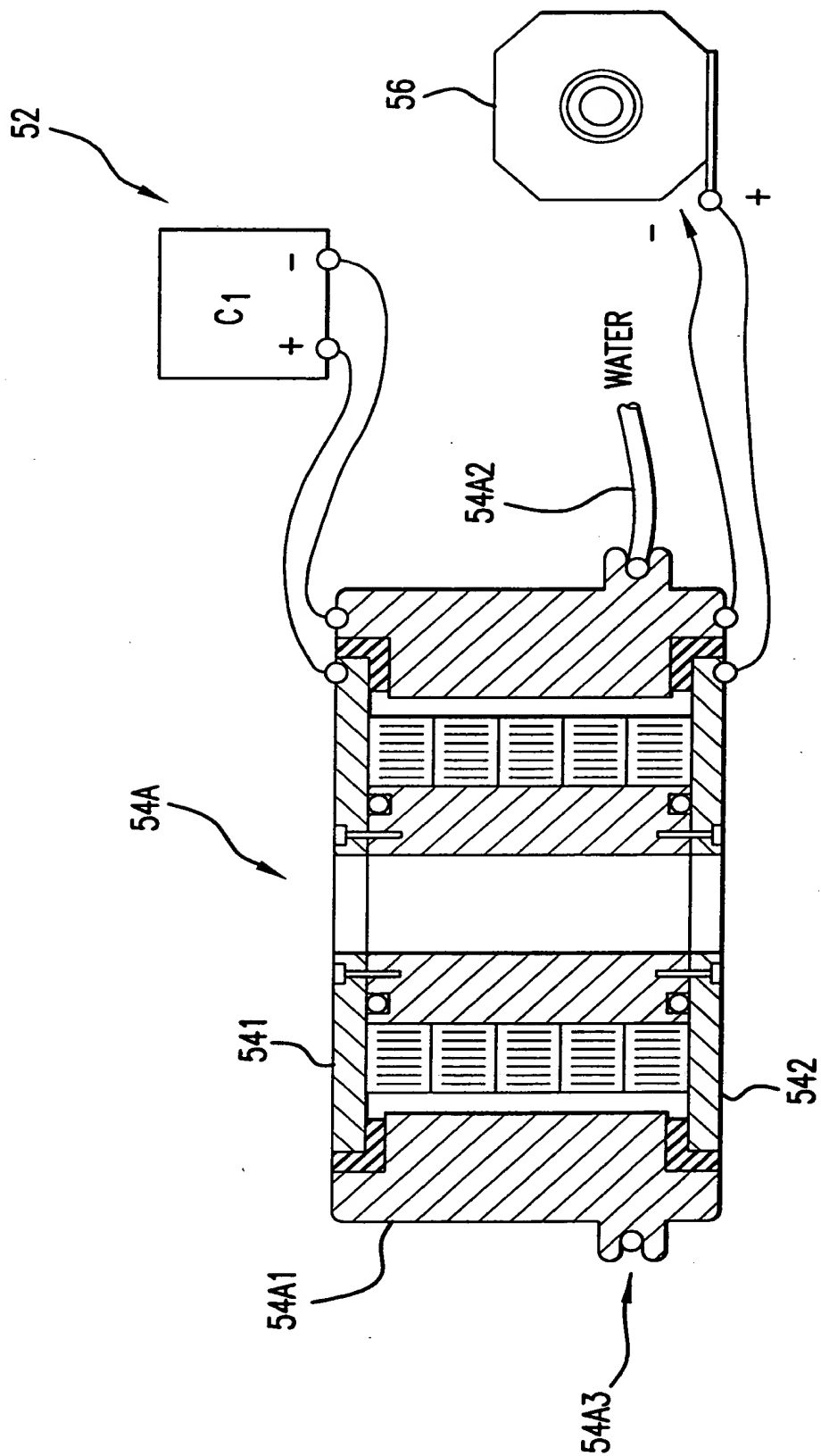


FIG. 11A

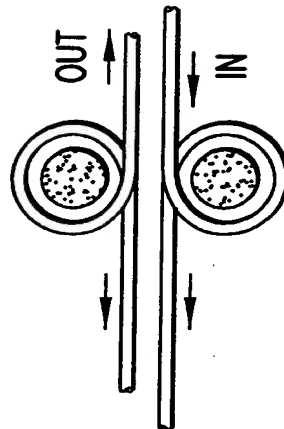
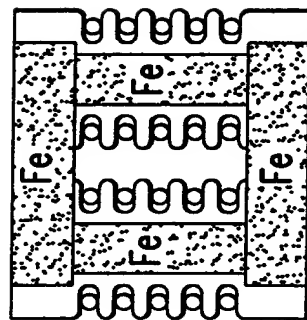
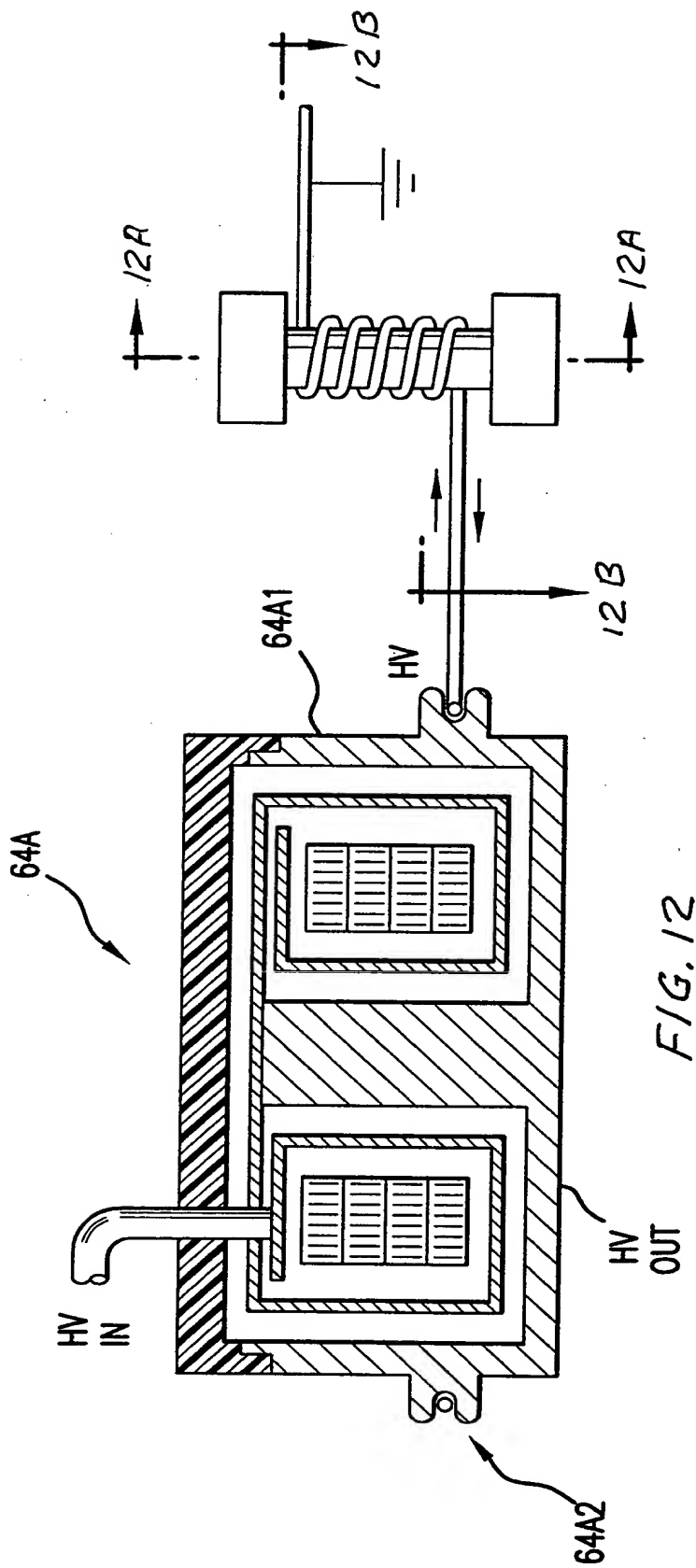


FIG. 13

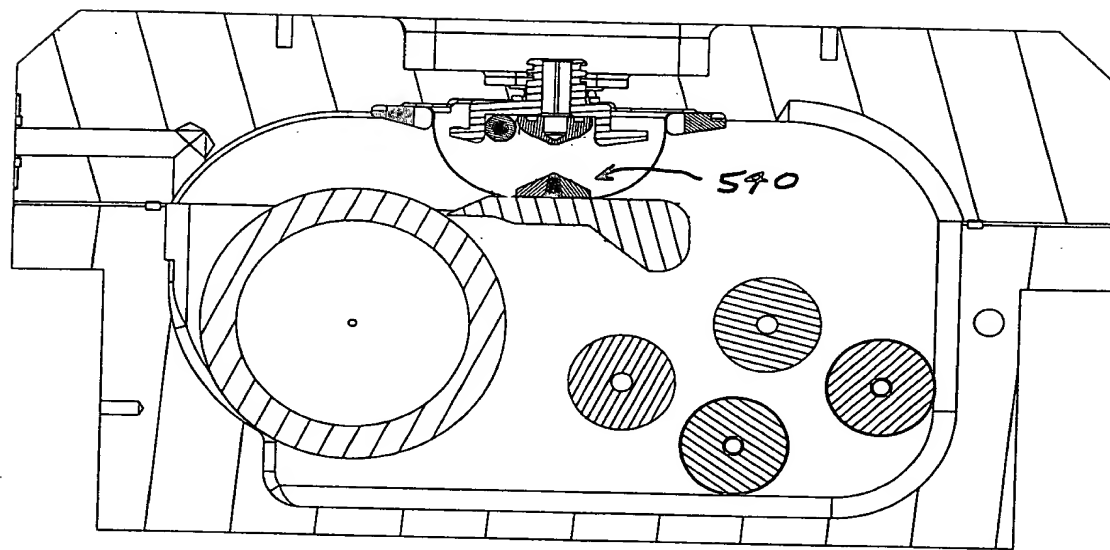


FIG. 13

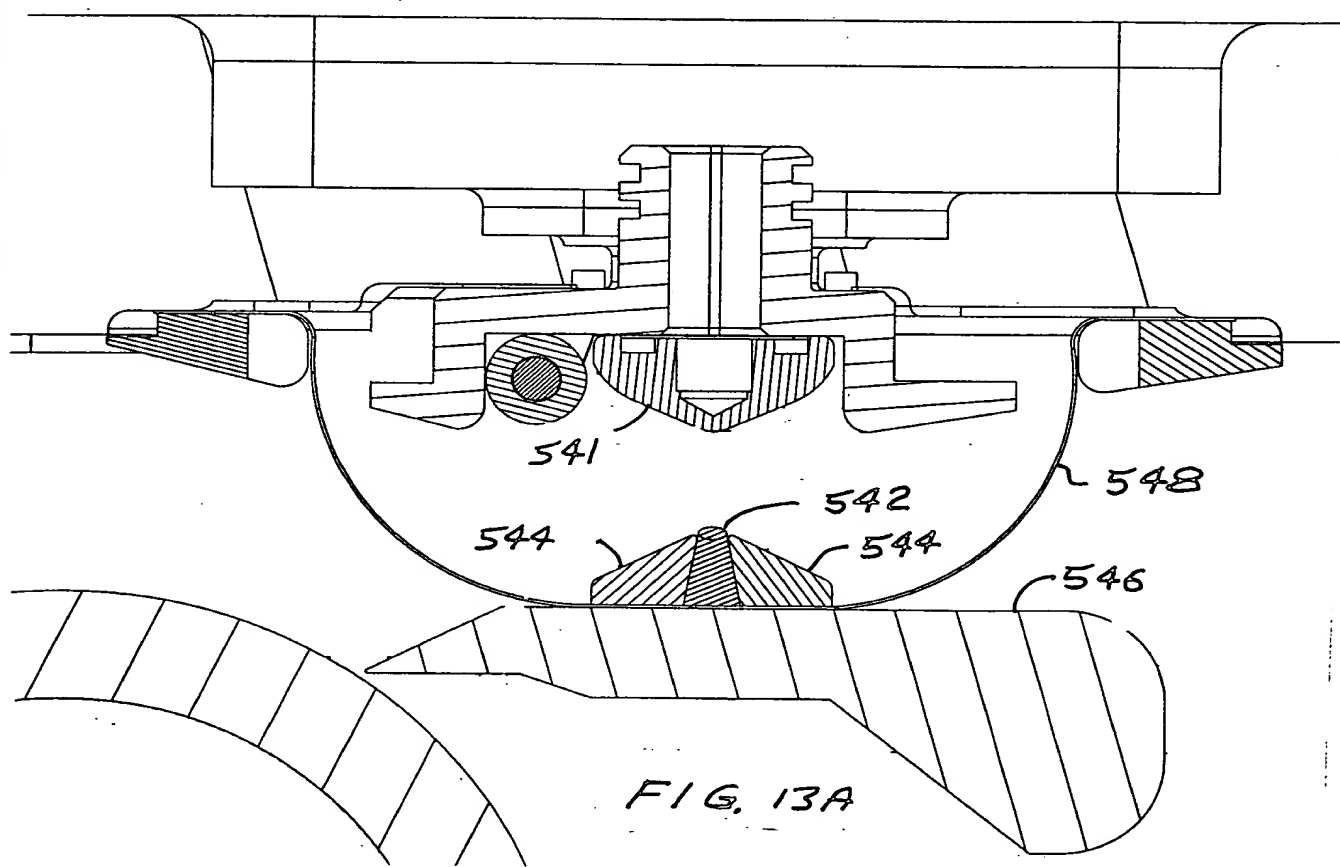


FIG. 13A

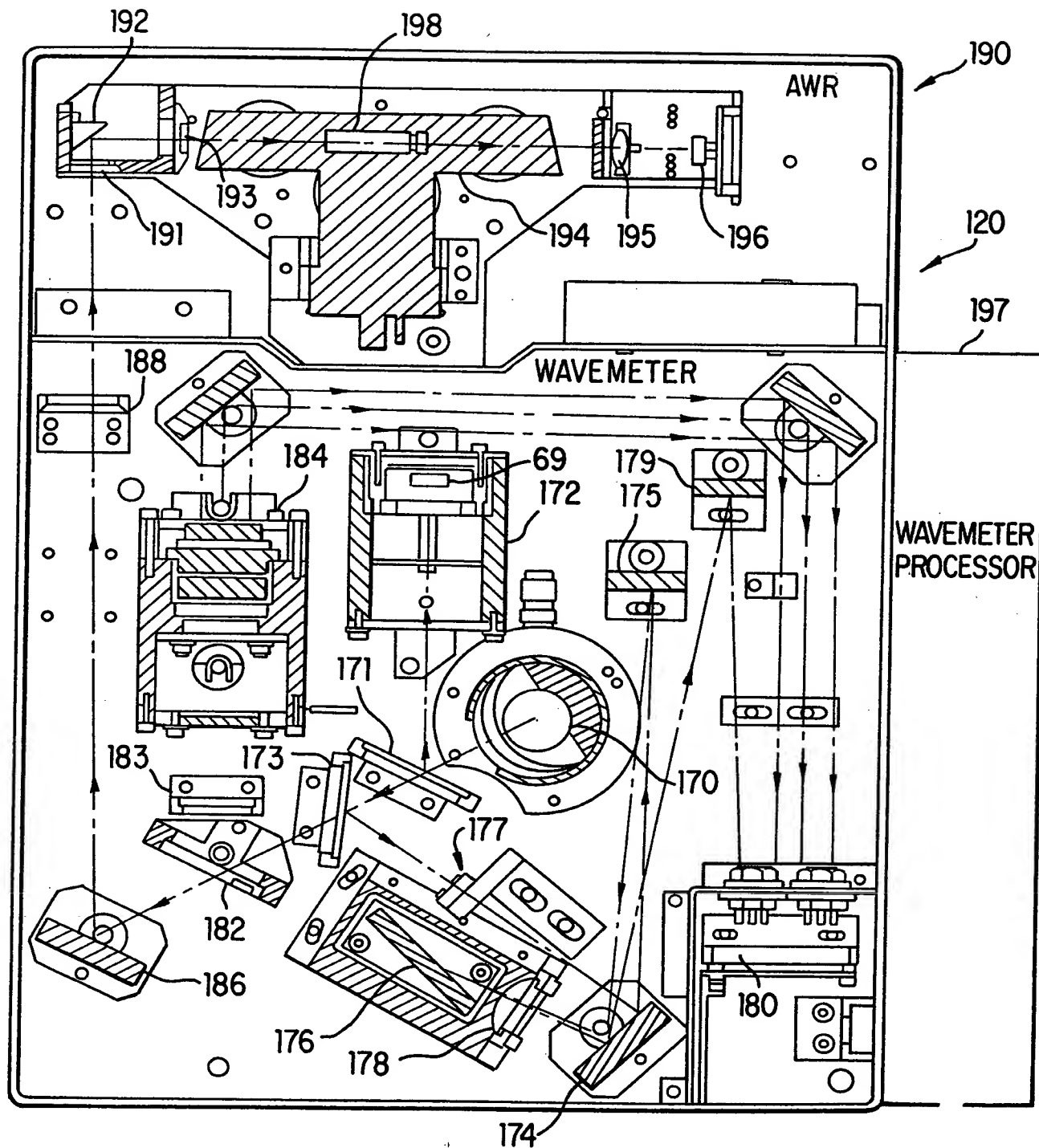


FIG. 14

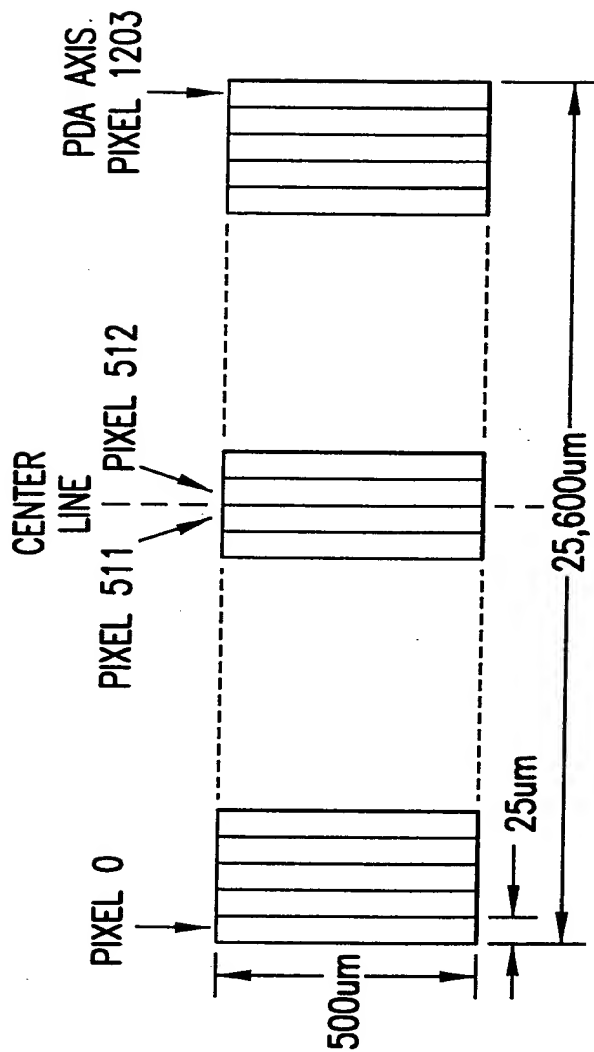


FIG. 14A

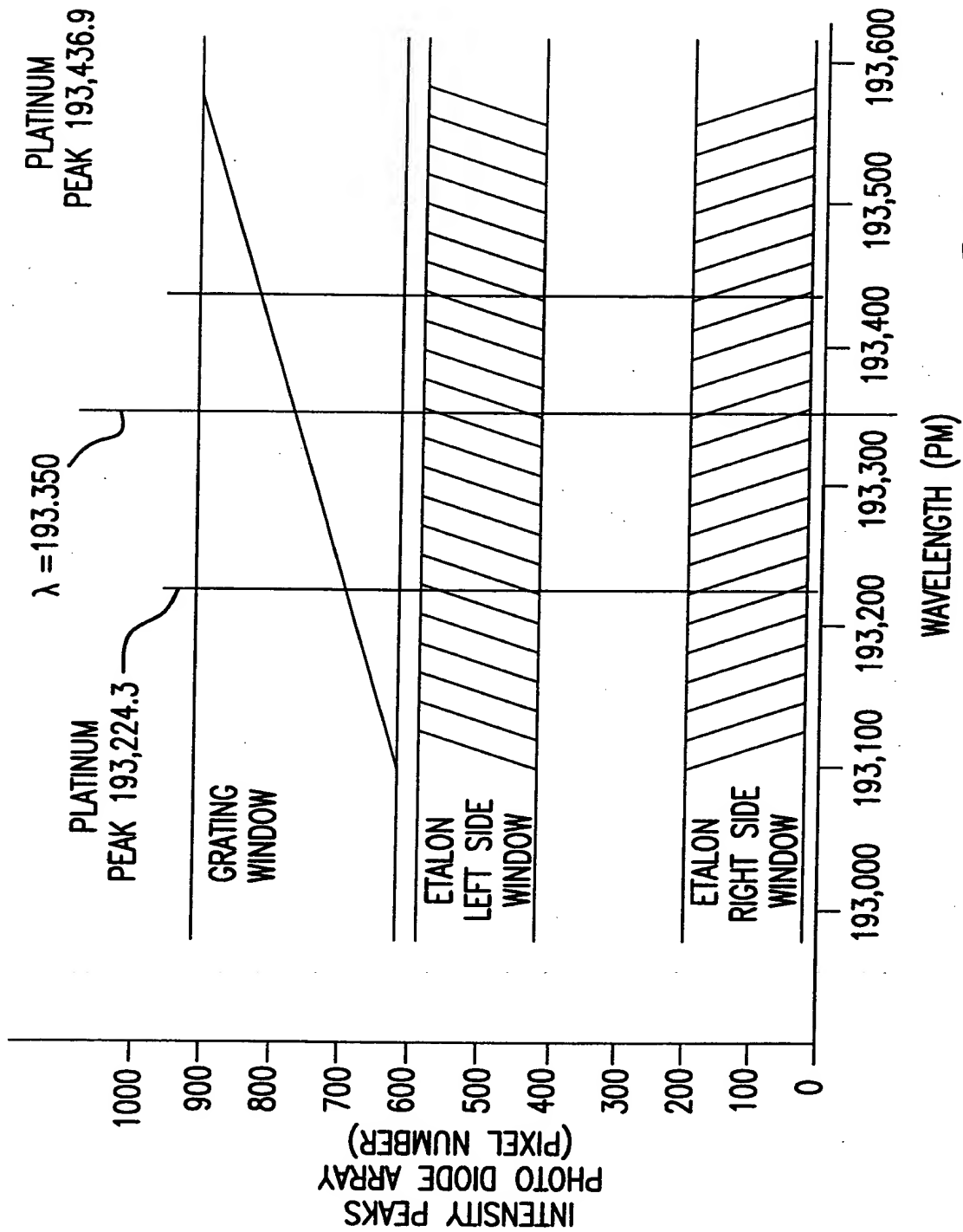


FIG. 14B

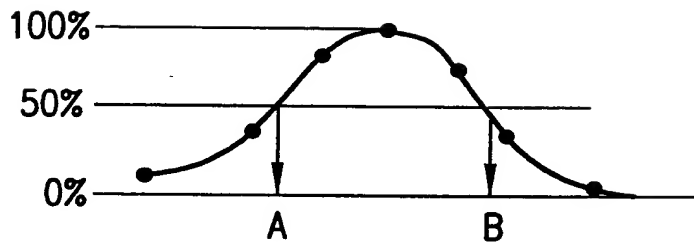


FIG. 14C

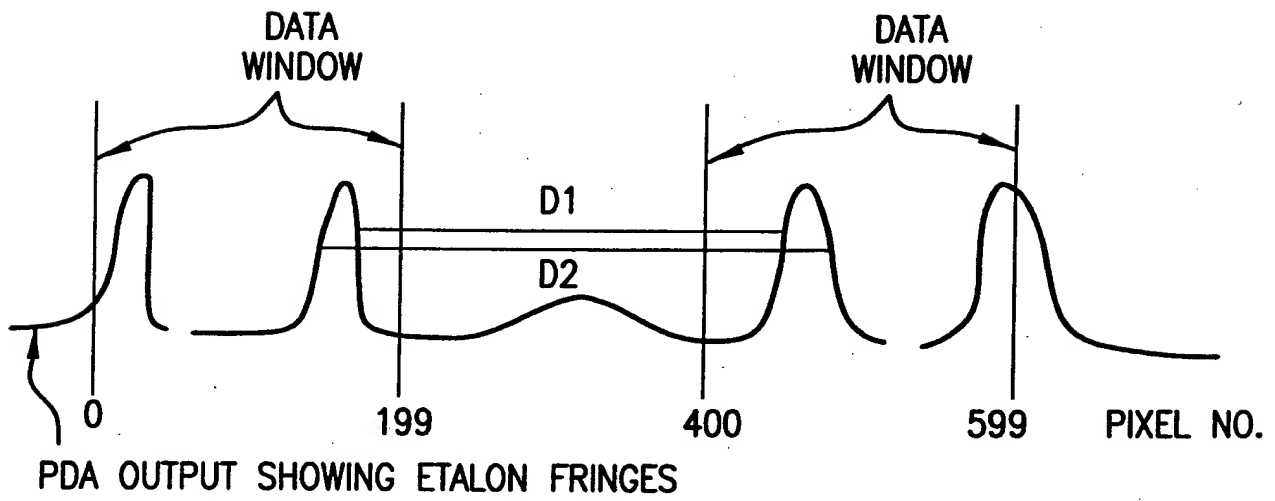


FIG. 14D

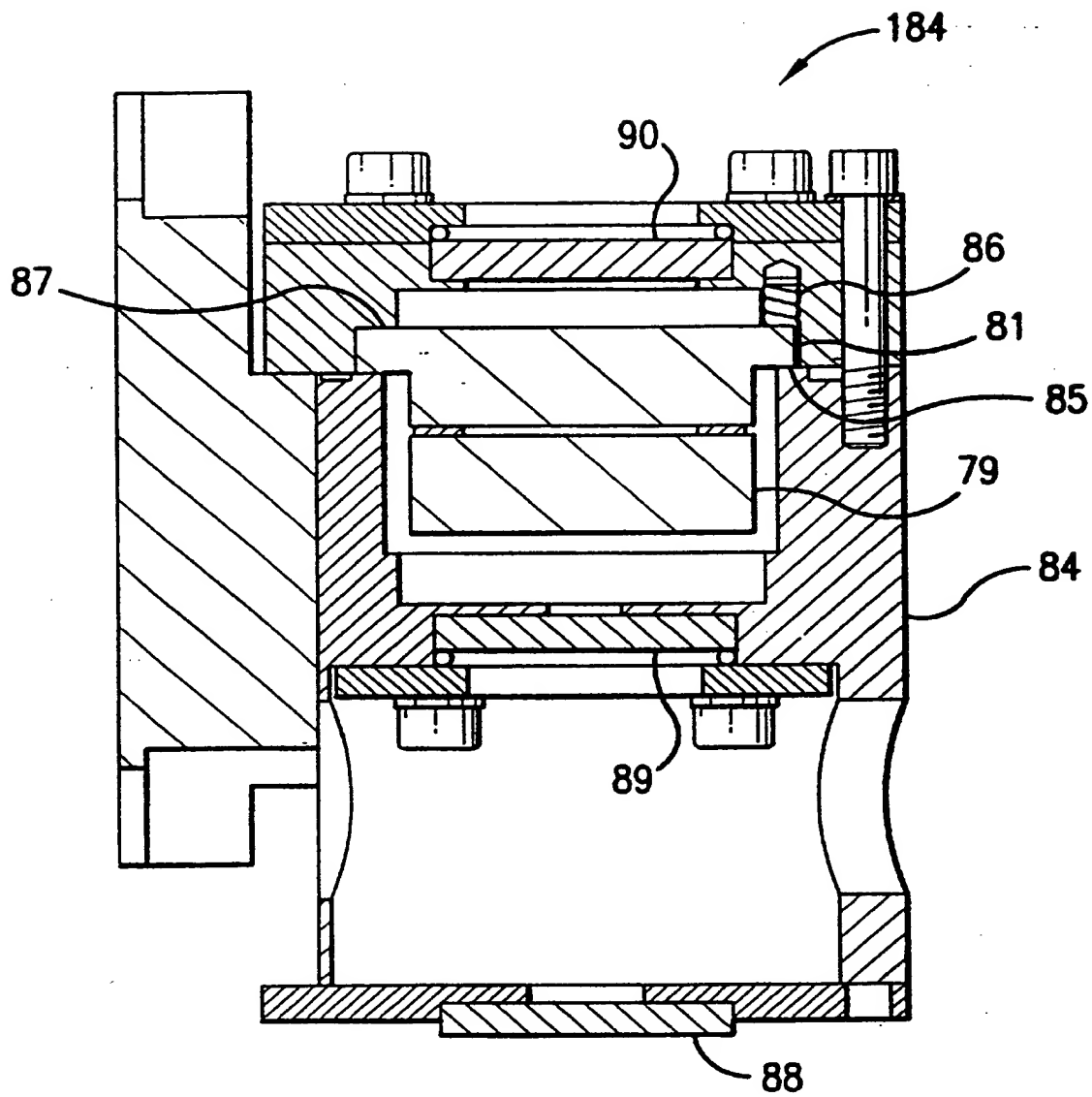


FIG. 14E

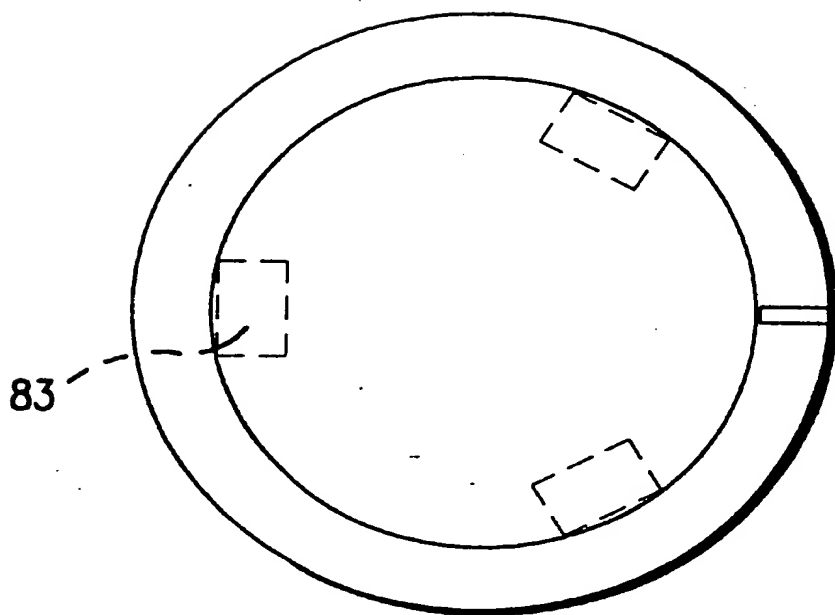
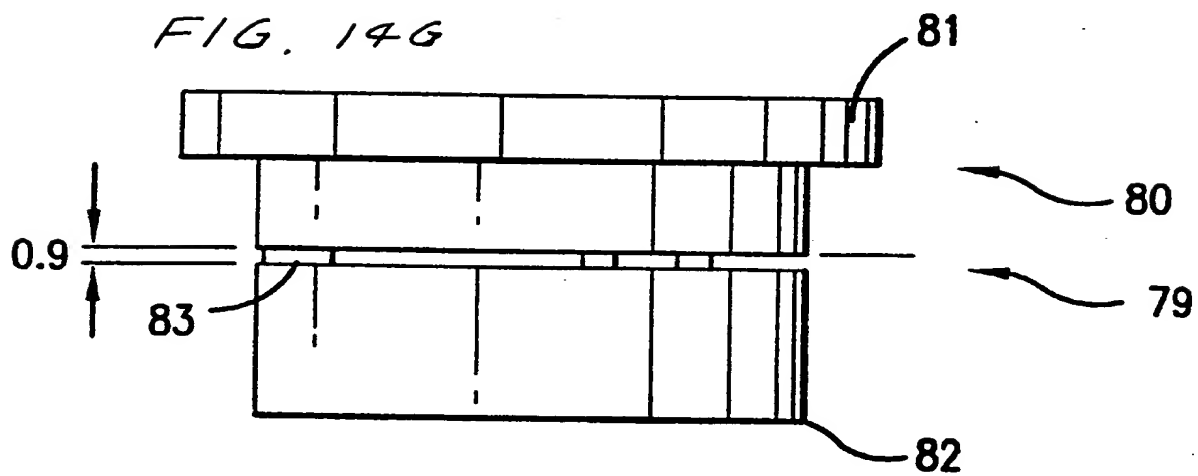
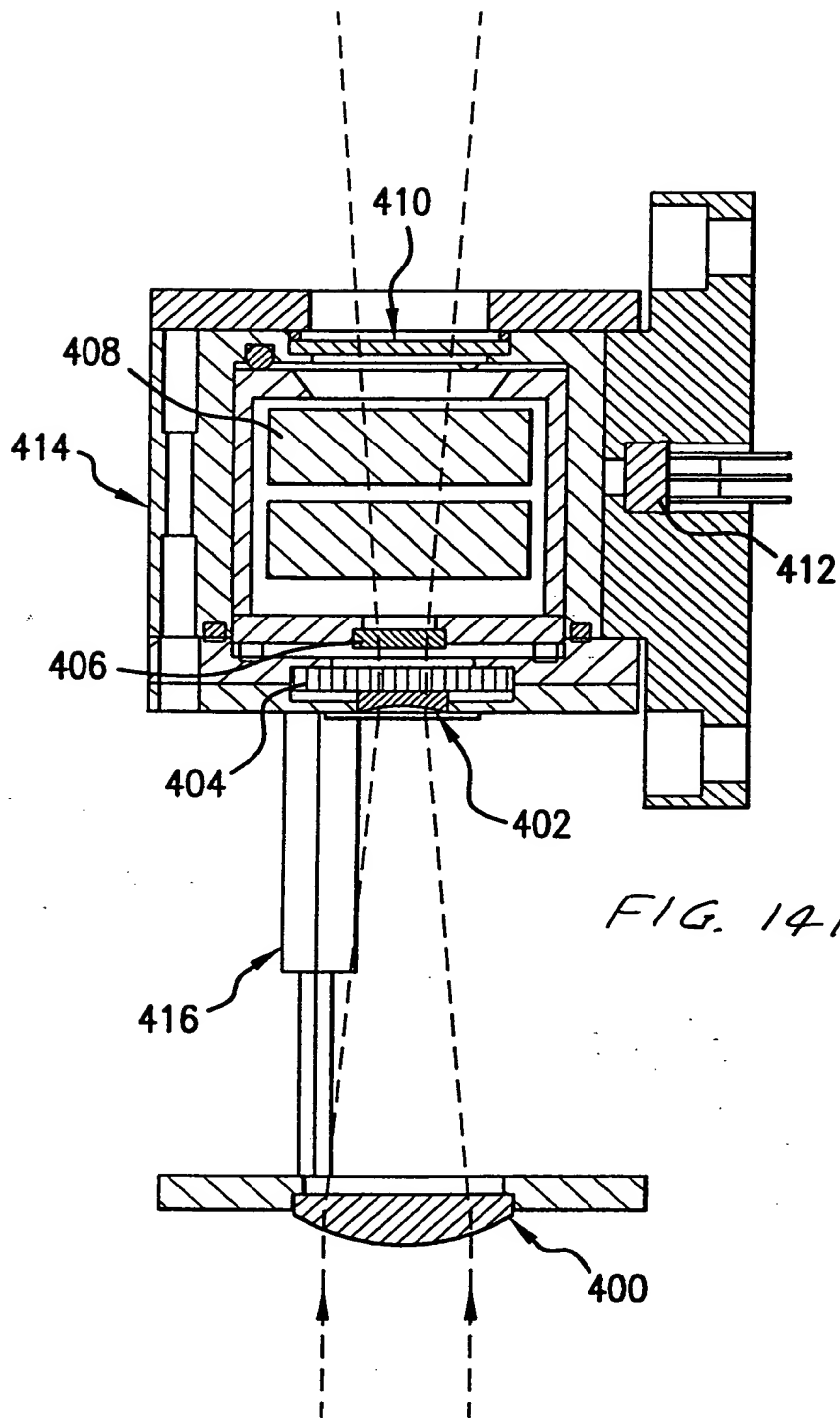


FIG. 14F





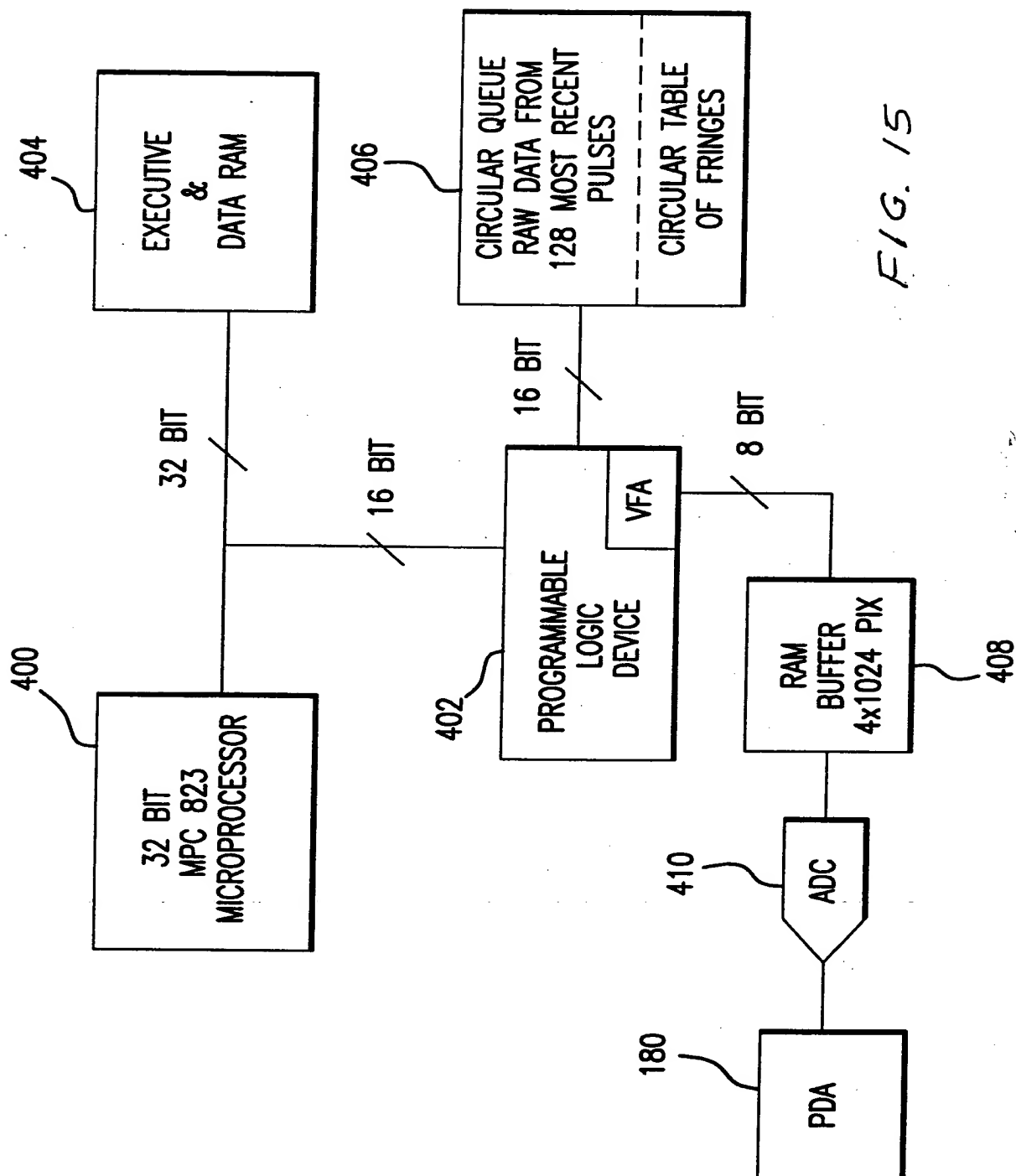


FIG. 15

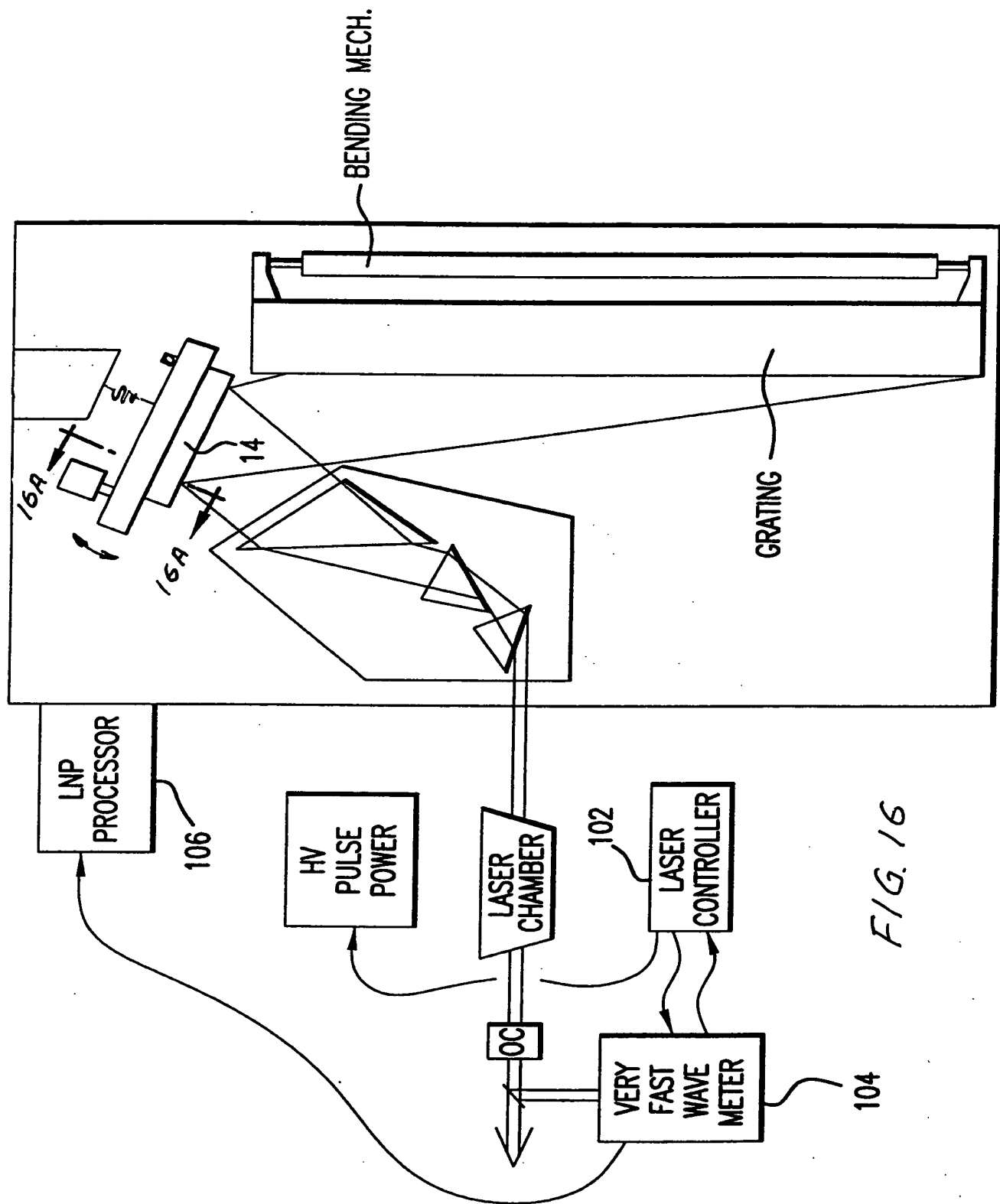


FIG. 16

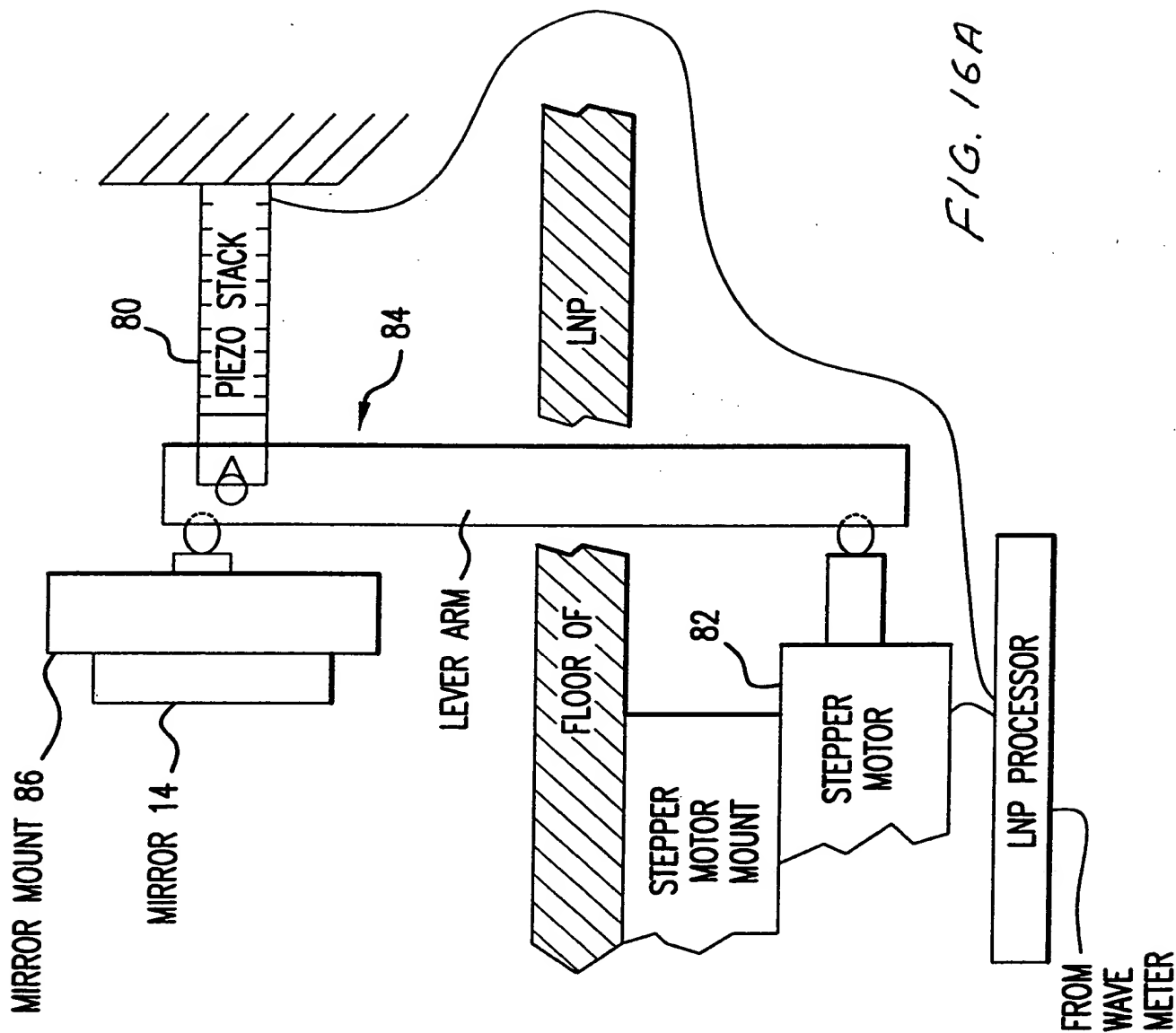


FIG. 16A

FIG. 16B1

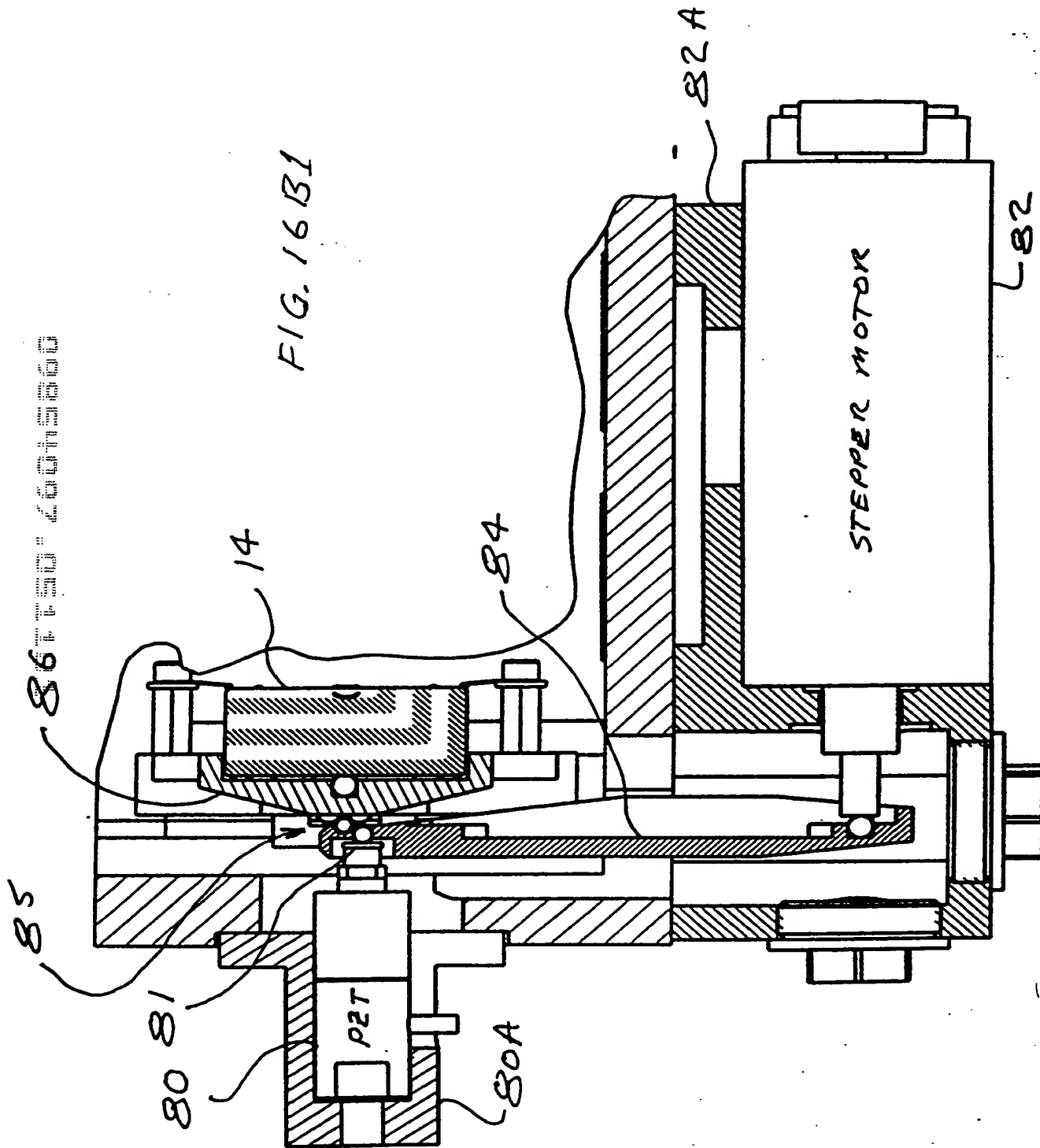
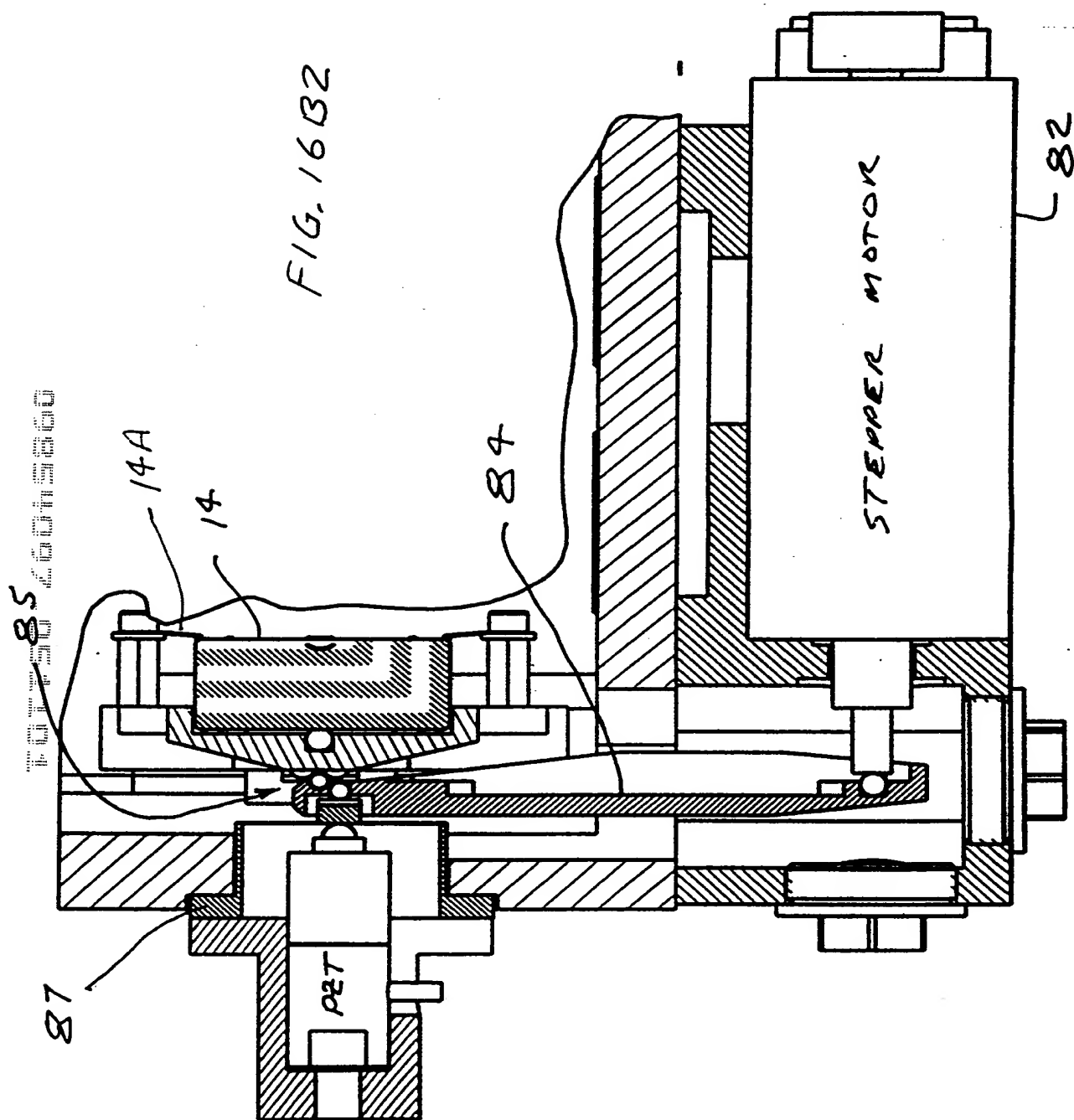


FIG. 16B2



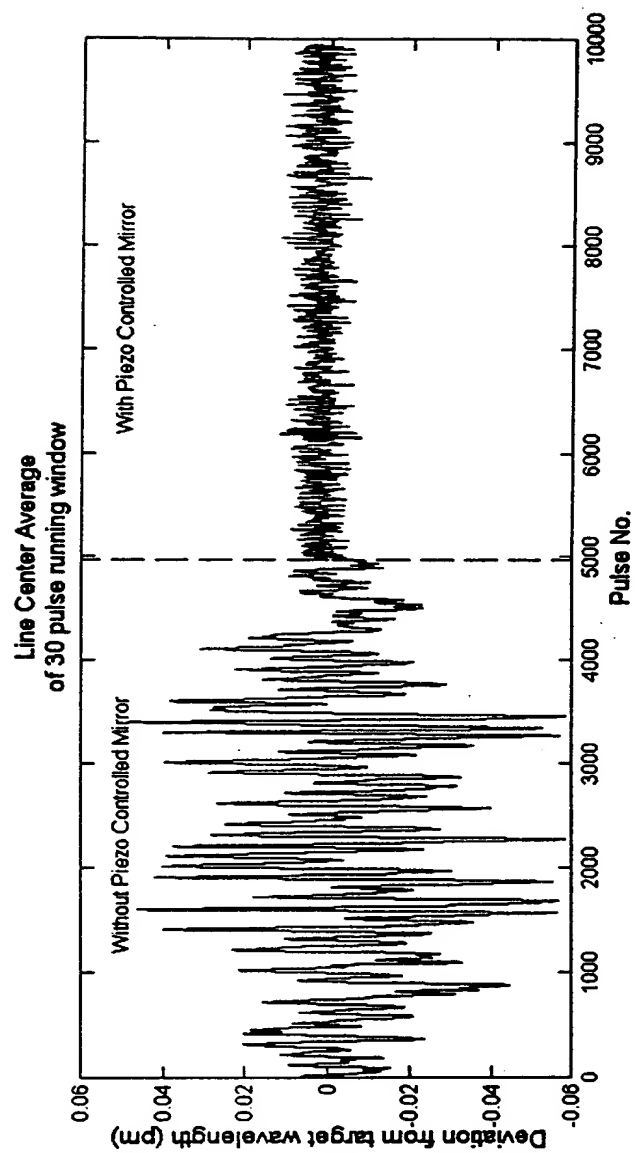


FIG. 16C

FIG. 16D

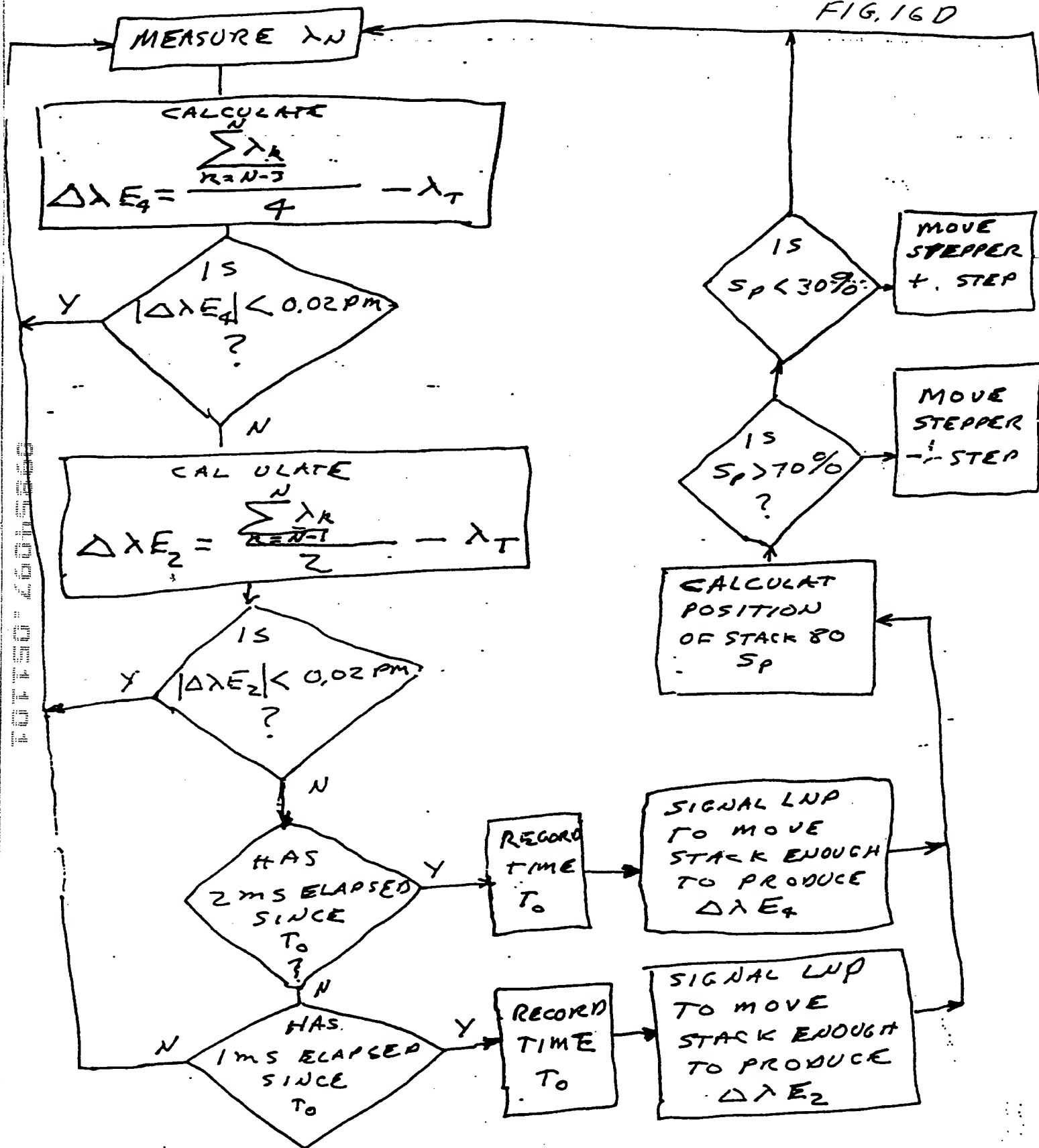
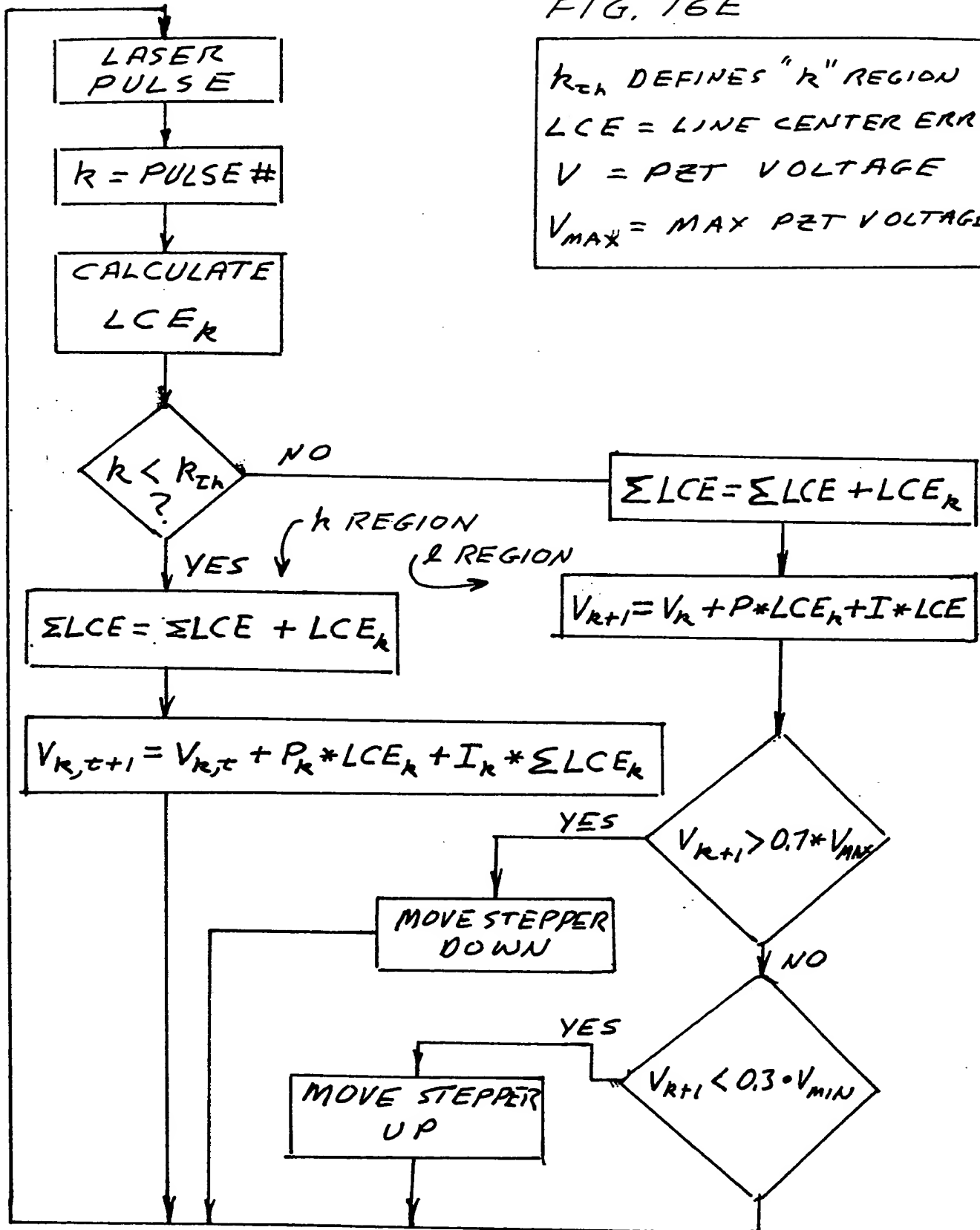


FIG. 16E

k_{TH} DEFINES "K" REGION
 $LCE = \text{LINE CENTER ERROR}$
 $V = \text{PZT VOLTAGE}$
 $V_{MAX} = \text{MAX PZT VOLTAGE}$



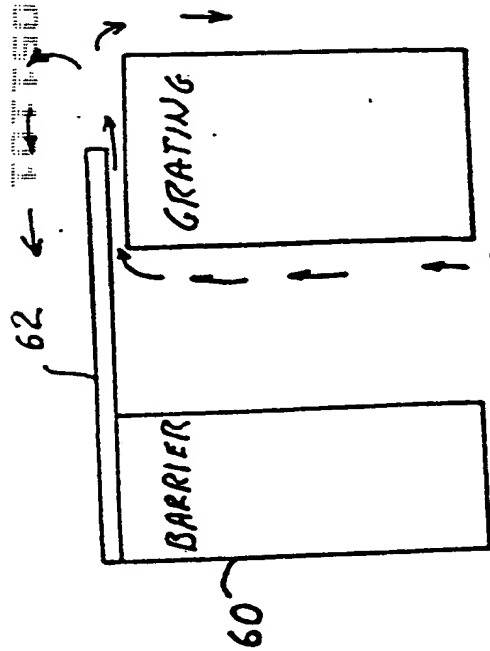


FIG. 17

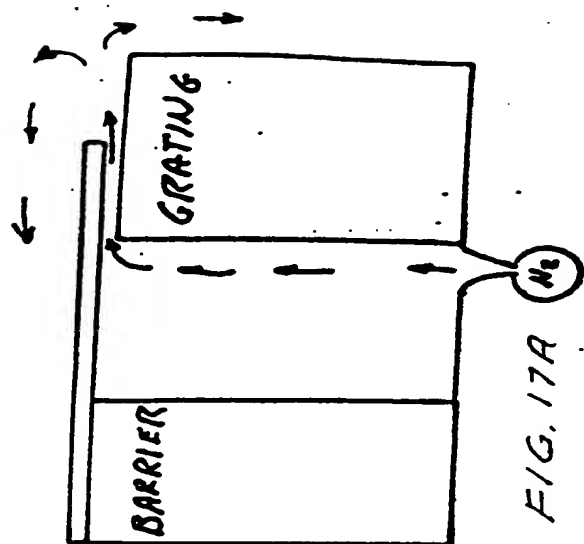


FIG. 17A

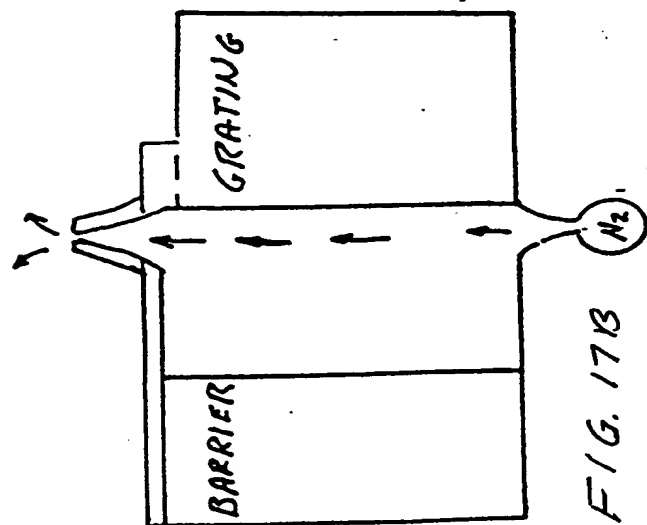


FIG. 17B

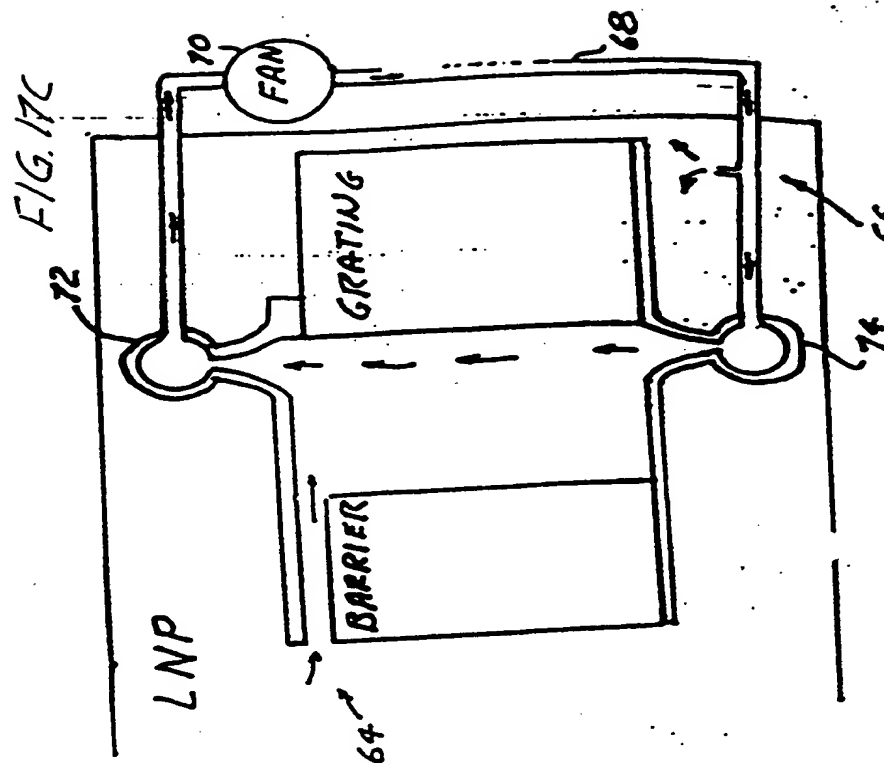


FIG. 17C

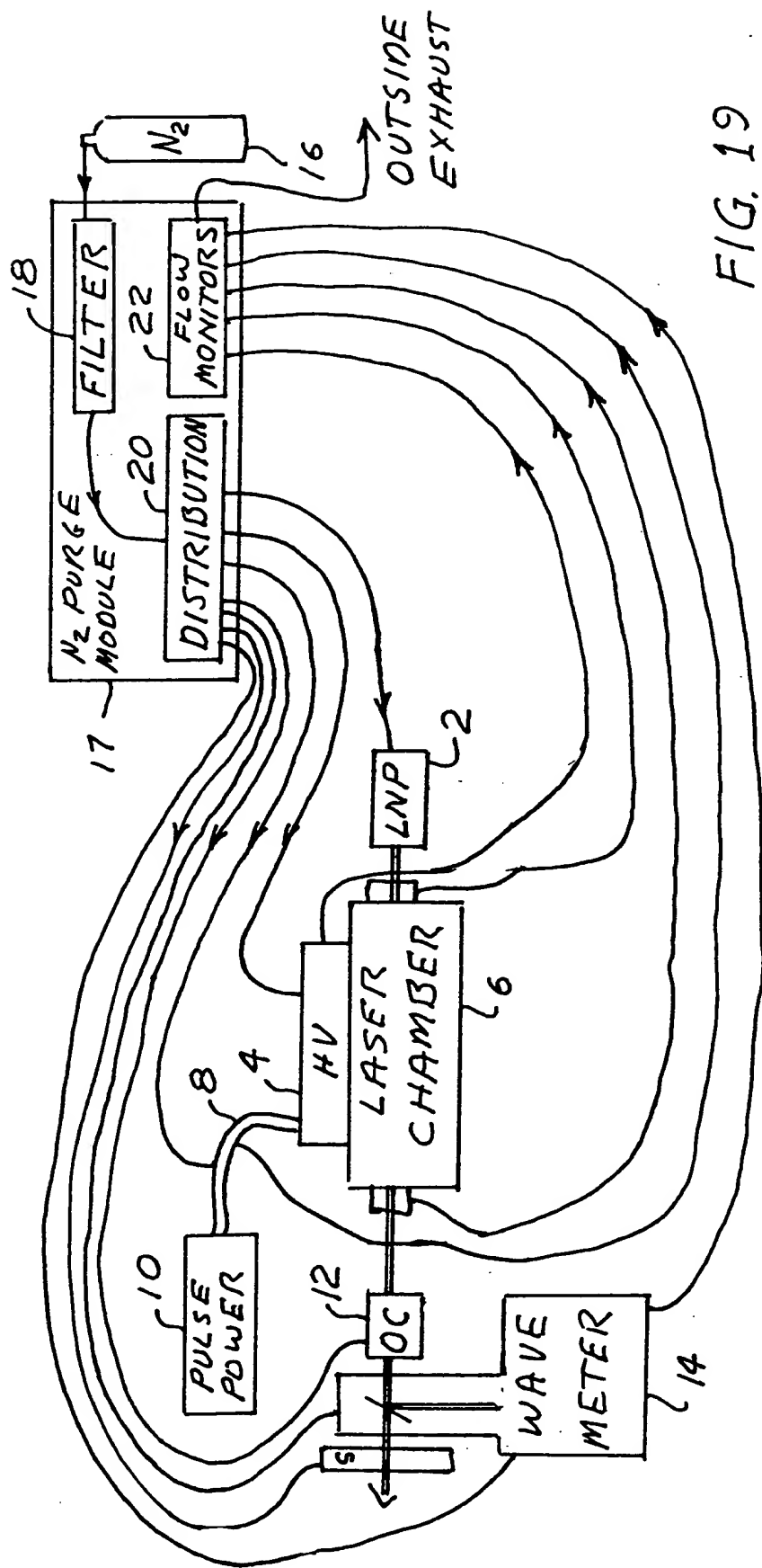


FIG. 19

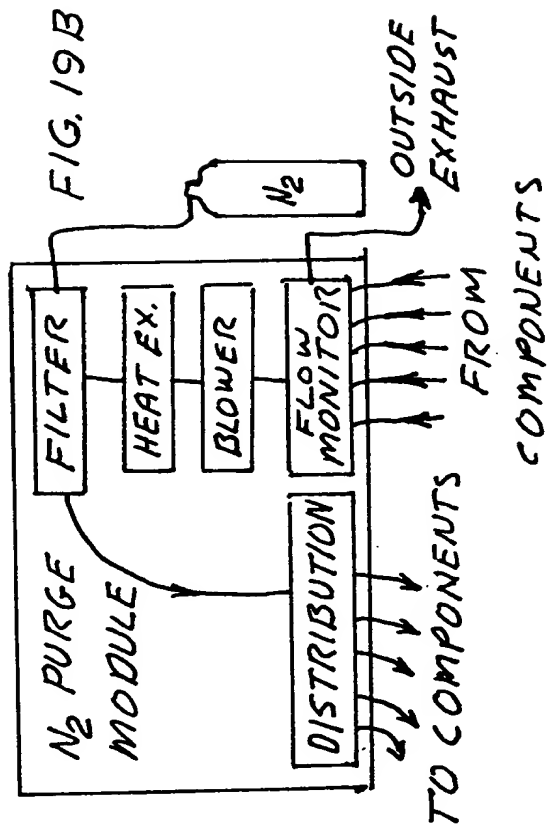


FIG. 19B

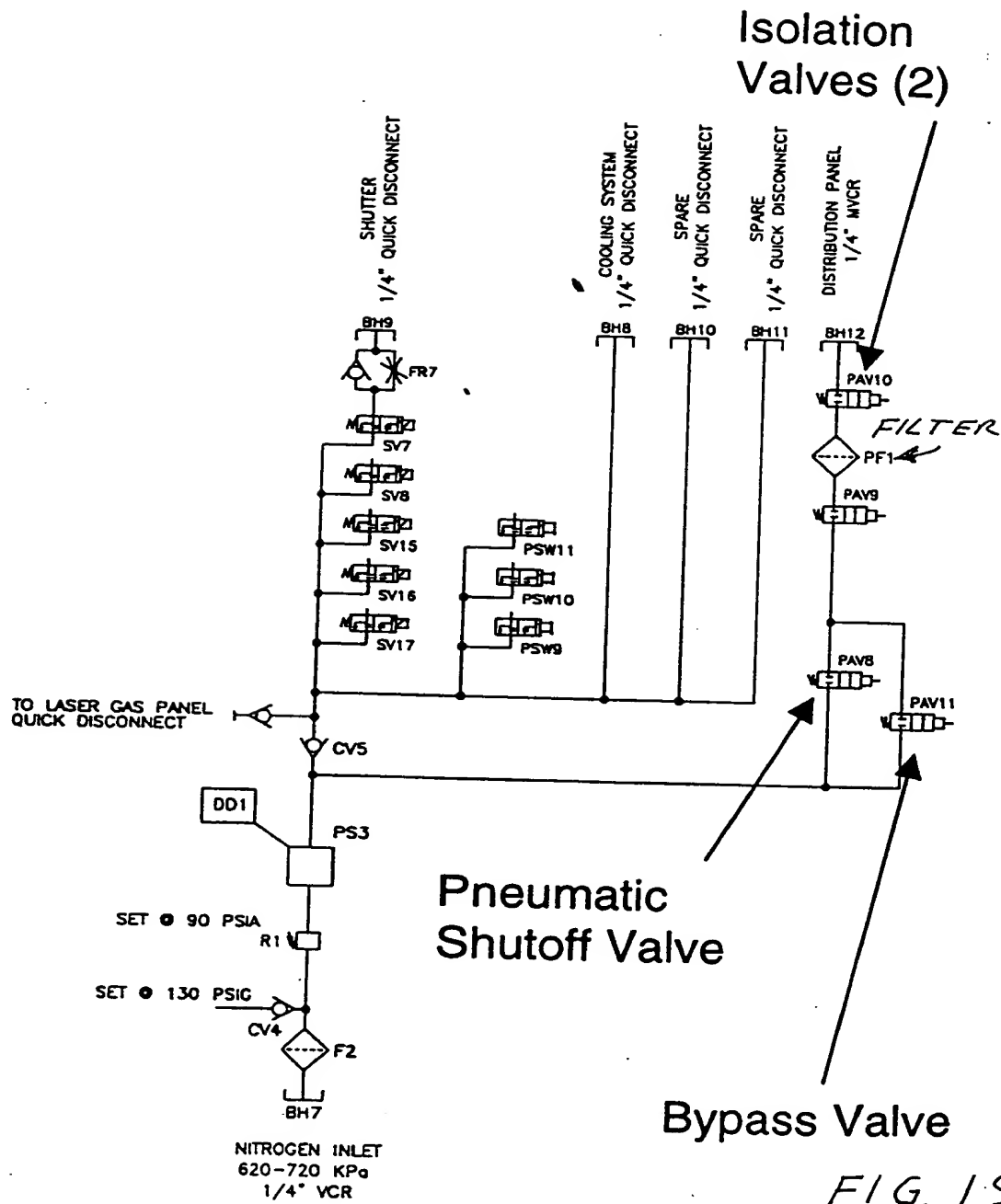


FIG. 19A

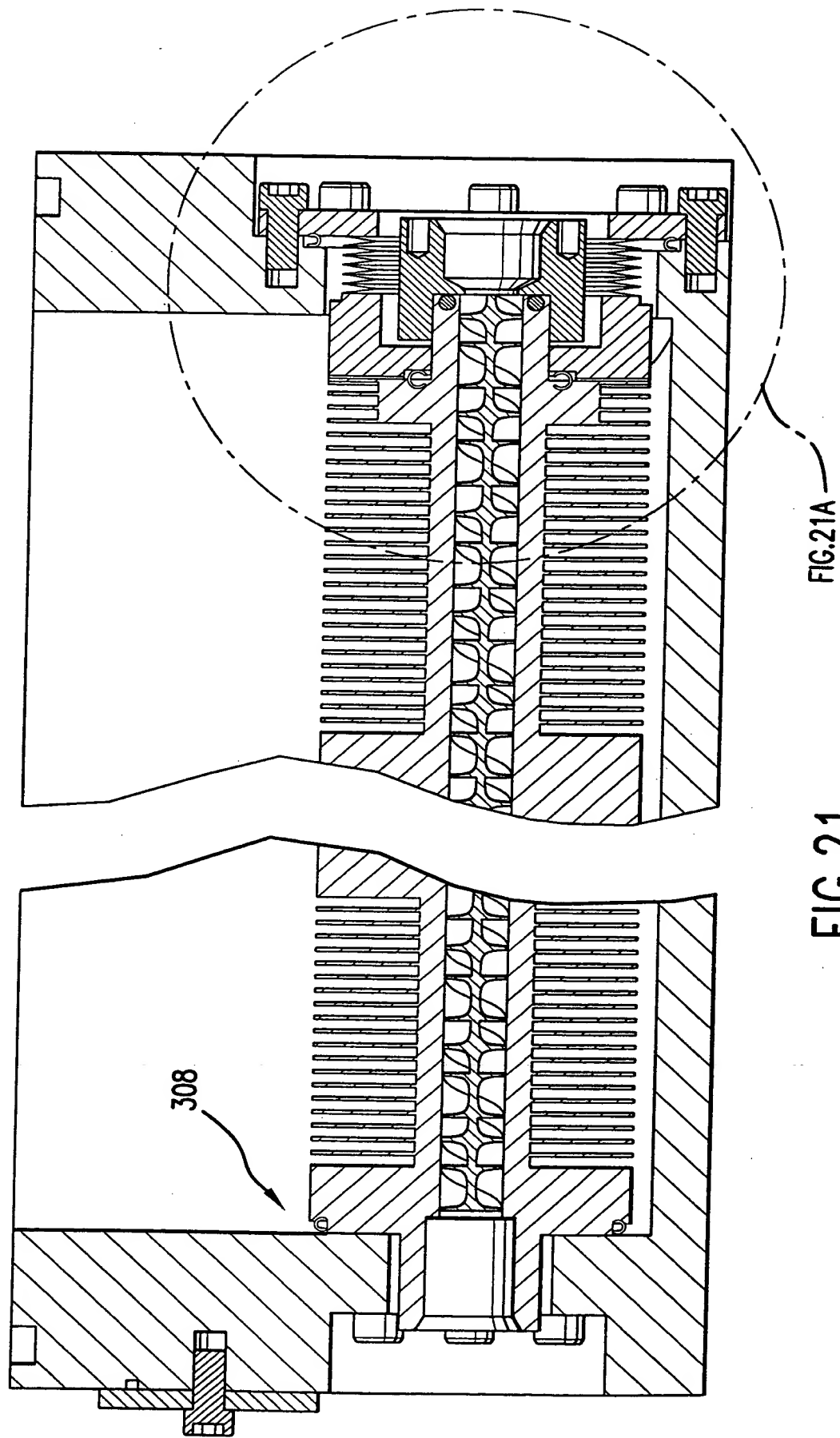


FIG. 21

FIG. 21A

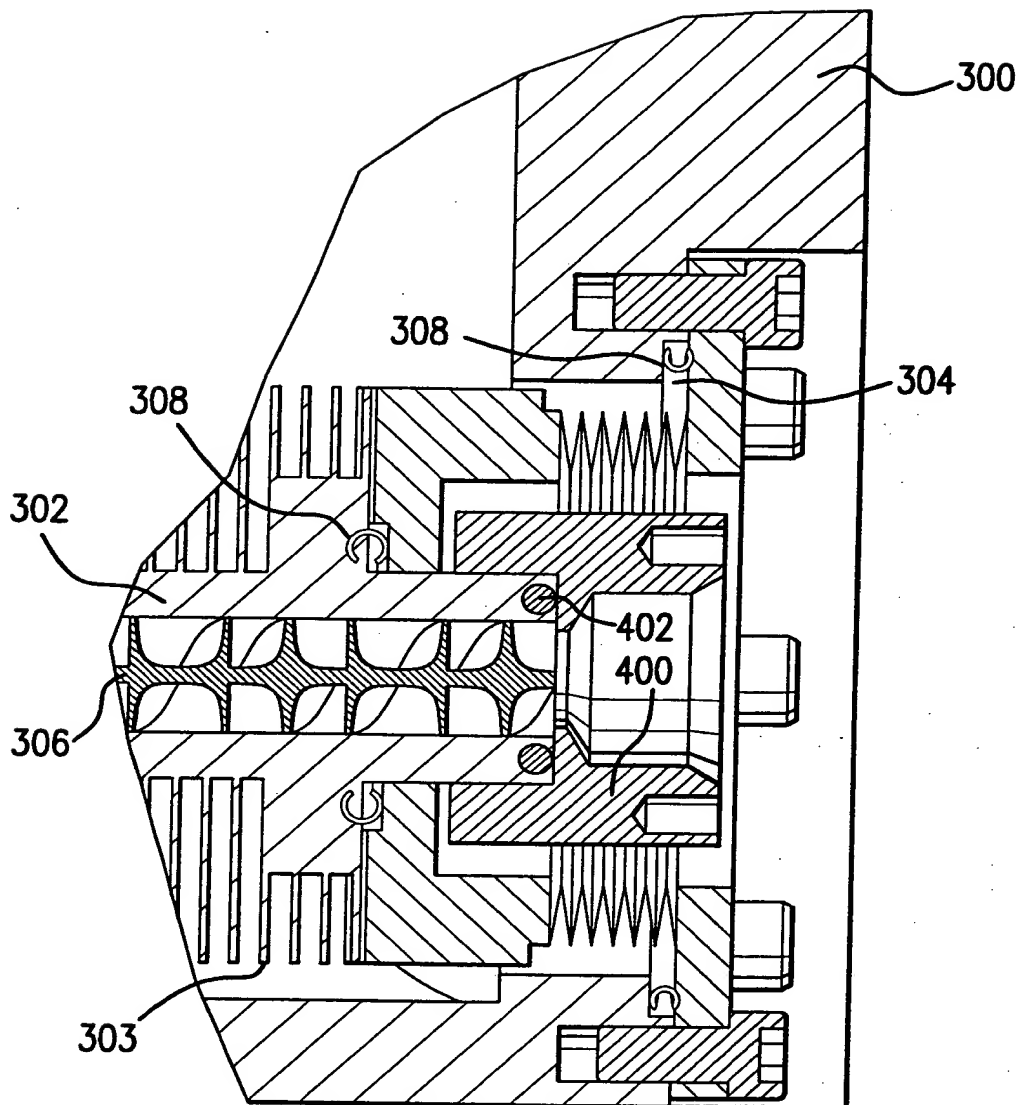


FIG.21A

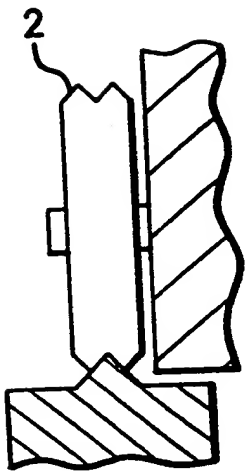


FIG. 22B

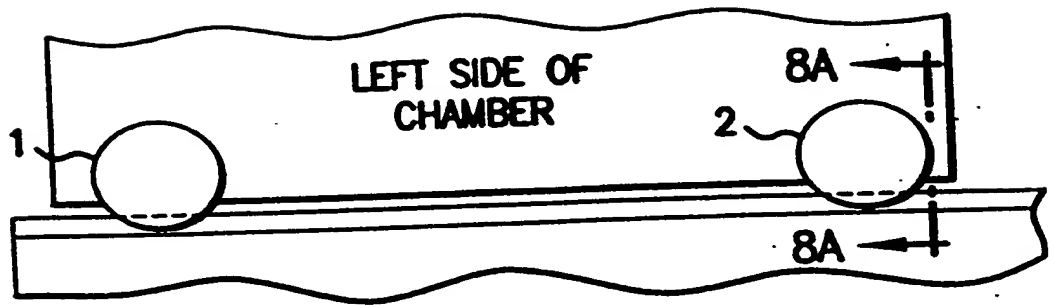


FIG. 22A

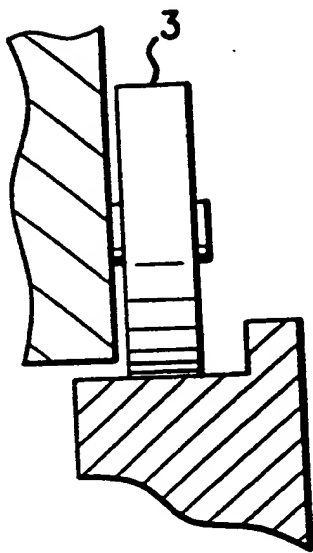


FIG. 22C

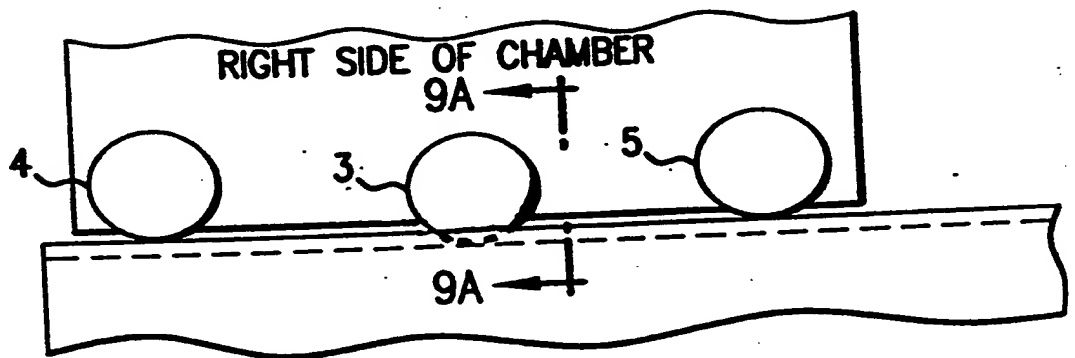
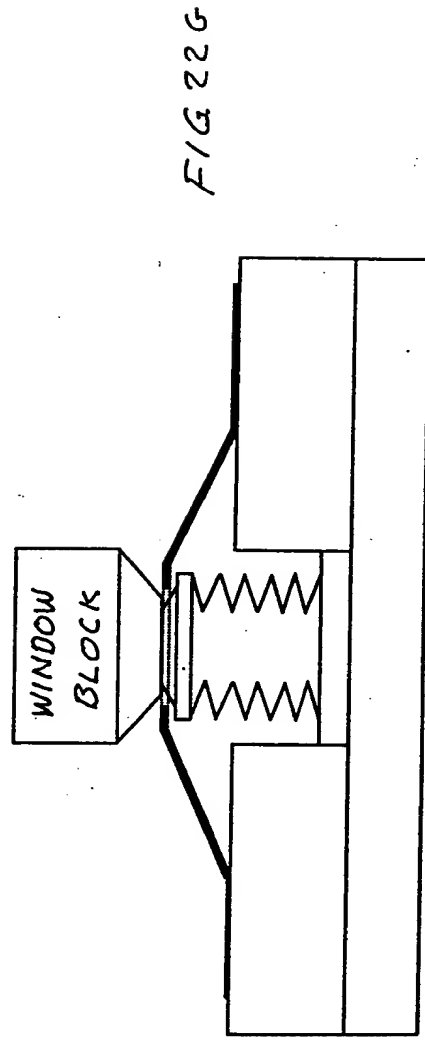
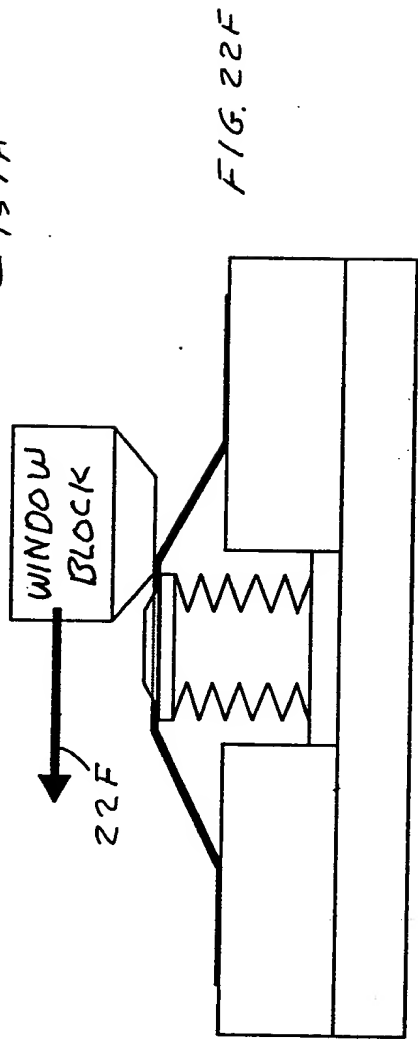
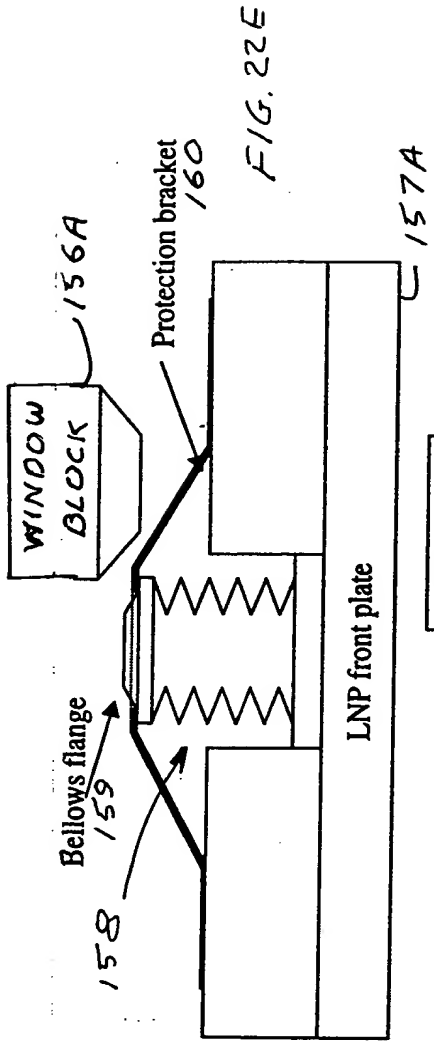
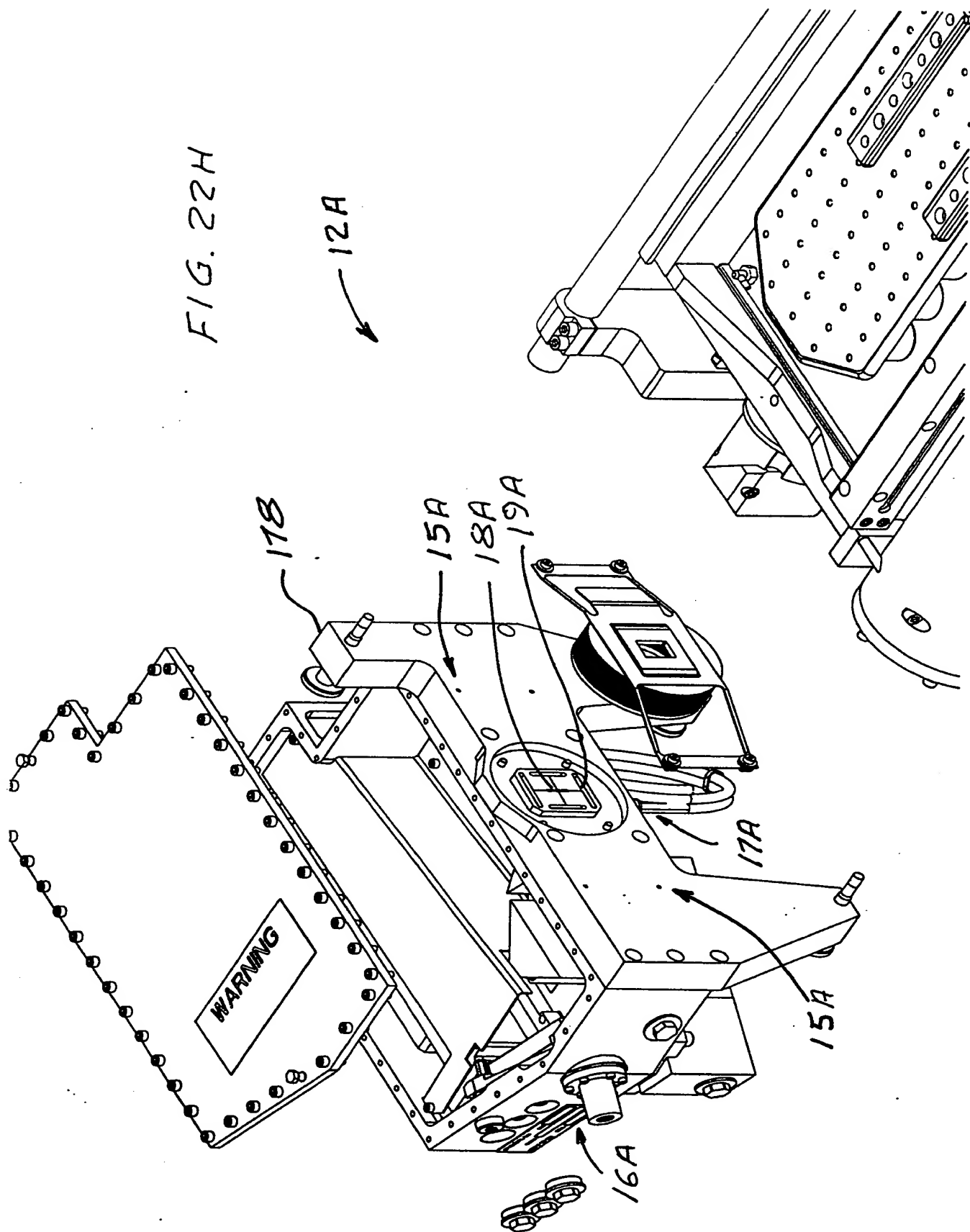
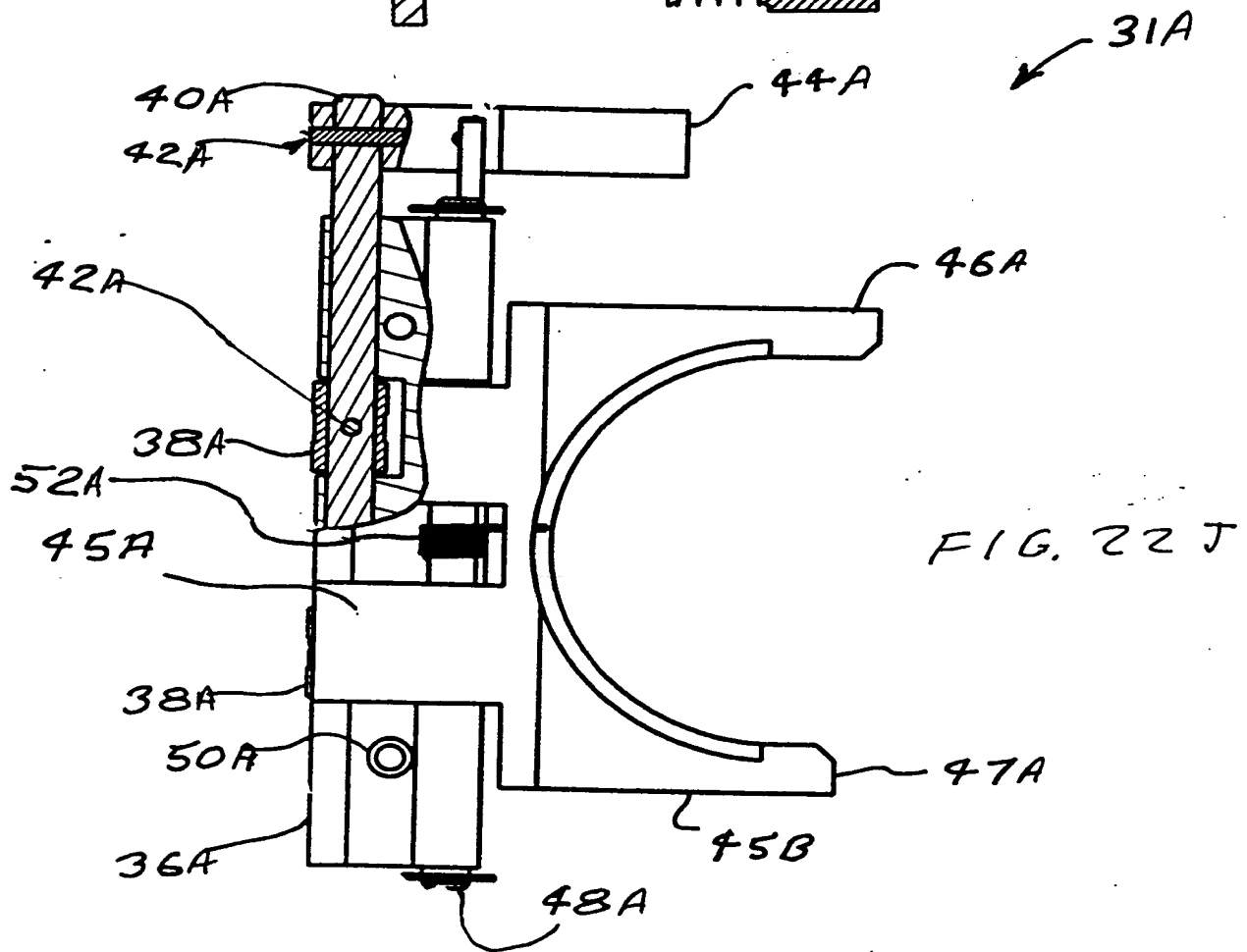
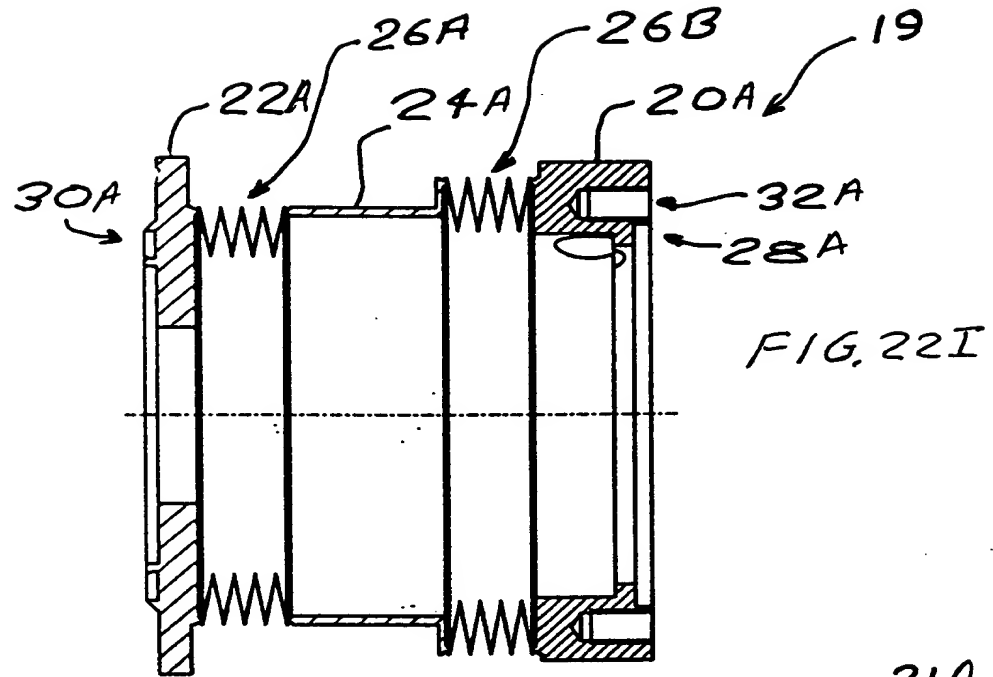


FIG. 22D







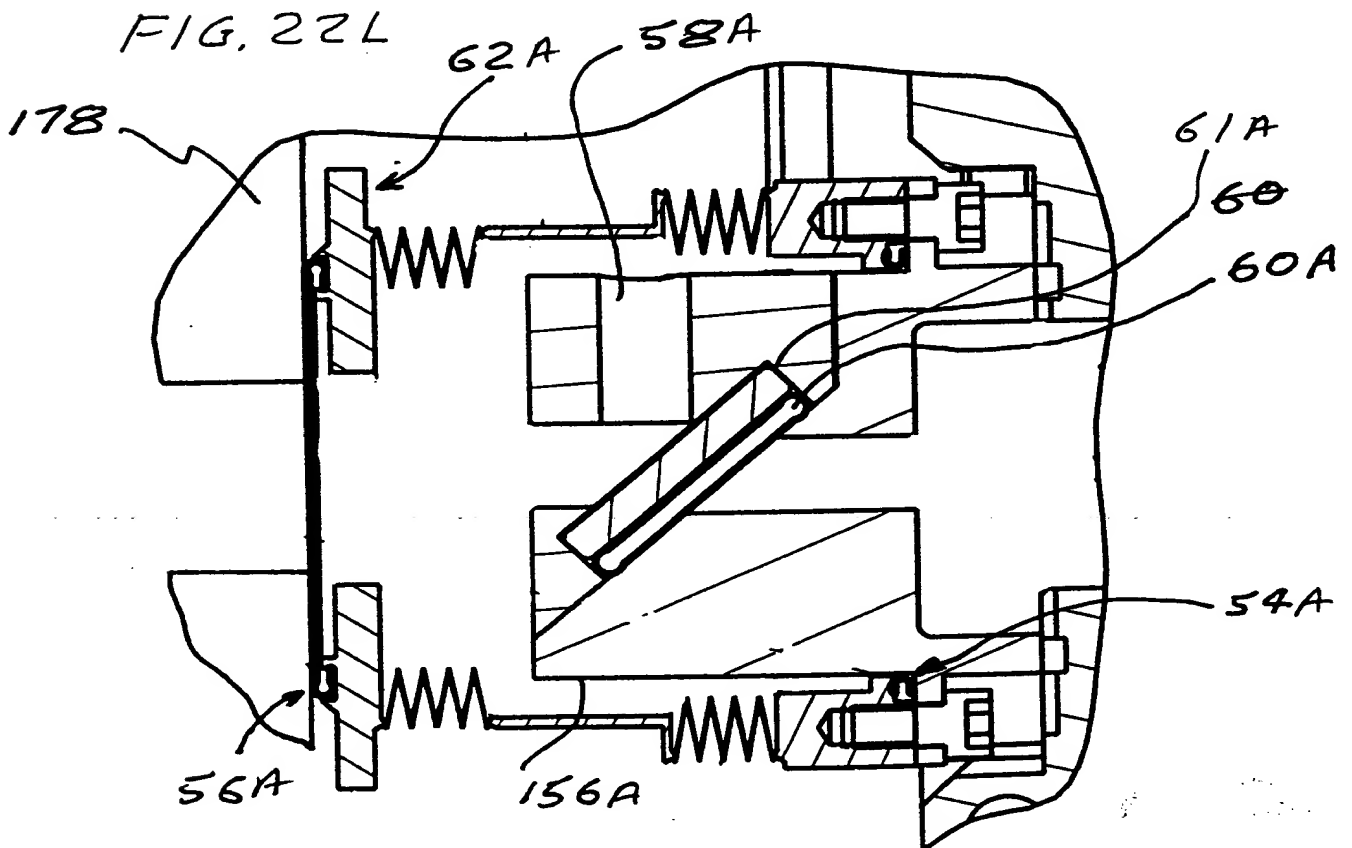
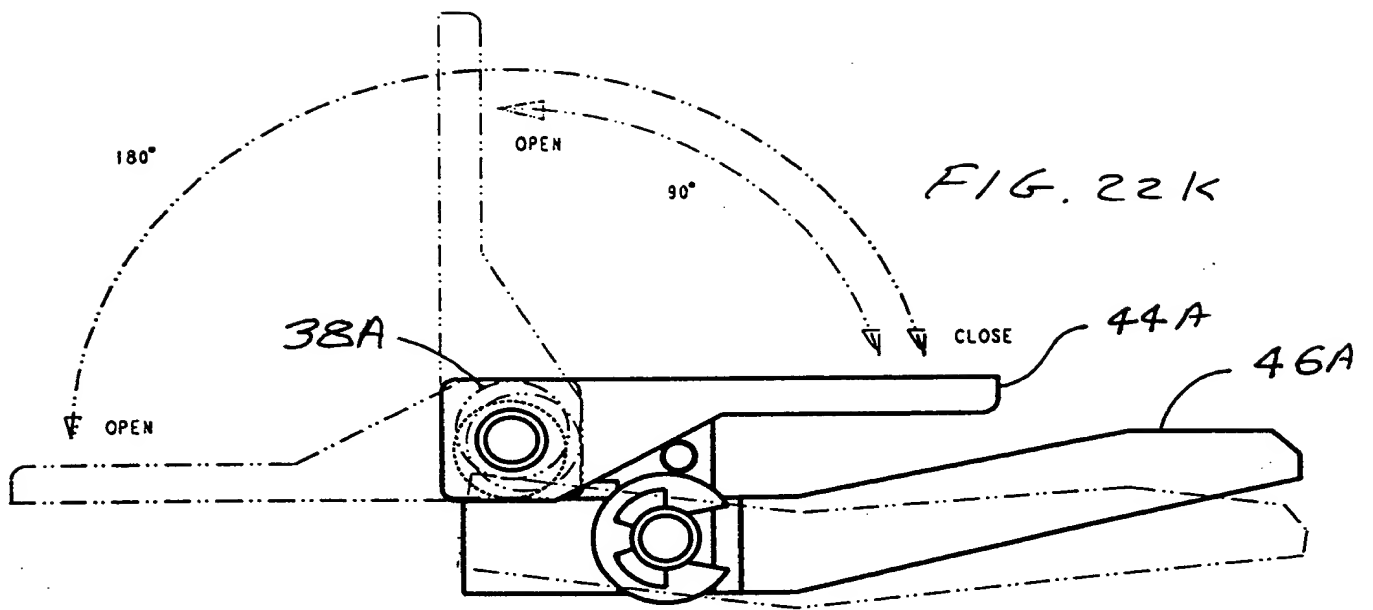


FIG. 22M

